March 23, 2005

VIA FEDERAL EXPRESS

Mr. Wayne Williams
Wedron Silica Company
3450 E. 2056th Road
Wedron, IL 60557

RE: APPLICATION FOR PERMIT TO CONSTRUCT AND OPERATE
WEDRON SILICA COMPANY 05030102

Dear Mr. Williams:

Attached is a complete application for a Permit to Construct (PTC) and Permit to Operate (PTO) for Wedron Silica Company's Wedron, Illinois facility (Wedron). The application has been finalized based upon comments received by Wedron representatives on previous draft documents.

Enclosed please find three (3) bound hard-copies of the PTC/PTO application. One (1) copy is for your files. The other two (2) copies must be sent to the State of Illinois Environmental Protection Agency (IEPA). Note that your signature and date is required on several forms. The forms have been marked with a tab where your signature and date is required. Please make a copy of all signed forms for Wedron's files.

We have also attached a cover letter addressed to the IEPA that can be copied onto Wedron Silica Company letterhead and signed. The enclosed check in the amount of $1,000 must also be included with the signed cover letter and two (2) application copies for submittal to IEPA. We recommend that the entire package be submitted via certified mail.

Please feel free to contact Tony Percha or myself at (248) 926-1199 should there be any questions.

Sincerely,
VISION ENVIRONMENTAL, INC.

Thomas C. Klotz

Thomas C. Klotz
Associate Environmental Consultant

Enclosures

cc w/ enc.: J. Fodo, Fairmount Minerals (unsigned copy)
D. Gerber, Fairmount Minerals (unsigned copy)
M. Schiefelbein, Fairmount Minerals (unsigned copy)

Application for
Permit to Construct and Operate

TECHNICAL SUPPORT DOCUMENT

Prepared for:

Wedron Silica Company

Prepared by:

VISION ENVIRONMENTAL, INC.
8585 PGA Drive, Suite 101
Walled Lake, MI 48390
(248) 926-1199

March 2005

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1.0 INTRODUCTION

Fairmount Minerals, Ltd. owns and operates the Wedron Silica Company ("Wedron") located at 3450 E. 2056th Road, Wedron, LaSalle County, Illinois. The Wedron facility has been in operation for over 100 years producing high purity, round grain silica sand. Wedron consists of a sand mining site and a sand processing plant. In the State of Illinois, aggregate mining operations are regulated by the Illinois Department of Natural Resources (IDNR) Office of Mines and Minerals. Meanwhile, the mining operations and the processing plant are also regulated by the Illinois Environmental Protection Agency (IEPA) with regard to environmental quality issues. A plot plan of the Wedron site is presented in Figure 1.

Wedron is submitting this application for a Permit to Construct (PTC) respective to proposed equipment modifications at the facility. Wedron is considering changes to the processing plant to support increased sand production. The application provided herein addresses the requirements to obtain a construction and/or operating permit from the Division of Air Pollution Control (DAPC). The changes, referred to as "Wedron II" throughout the remainder of this document, have been evaluated and determined to trigger the need to obtain a PTC from the IEPA, pursuant to Section 201.142 of the Illinois Administrative Code (Title 35).

This Technical Support Document serves as supplemental information to the general application Form APC-200 "Application for Permit to Construct/Operate." Appendix A includes Form APC-200, in addition to any other forms required by the IEPA-DAPC.

2.0 BACKGROUND

2.1 Existing Permits and Operations

The Wedron facility is currently subject to the Lifetime State Operating Permit program as the Potential-to-Emit (PTE) for each of the criteria pollutants (NOx, CO, VOM, SO_2, and PM_{10}) and for a single Hazardous Air Pollutant (HAP) and combined HAPs are below Title V major source thresholds. Certain equipment located at the facility is also subject to New Source Performance Standard (NSPS), 40 CFR 60, Subparts A, OOO and UUU. As such, Wedron applied for a Lifetime Operating Permit (Application No. 73031358) which was granted on April 27, 1998. A

renewal to the Lifetime Operating Permit was issued on August 15, 2003, and a revised Lifetime Operating Permit was most recently issued on May 6, 2004.

The current Lifetime Operating Permit addresses those emission sources or air pollution control equipment that previously were addressed in construction permits issued by IEPA. The current Lifetime Operating Permit limits the amount of sand/aggregate processed at the processing plant to 250,000 tons per month and 2,000,000 tons per year. Annual throughput and emission limitations of particulate matter (PM) and PM_{10} are also provided in the Lifetime Operating Permit for each individual source located at the processing plant.

The existing operations at Wedron will primarily remain unaffected as a result of the Wedron II project. However, Wedron is proposing certain amendments to the existing terms and conditions provided in the Lifetime Operating Permit at this time, specifically related to the annual throughput limitations and emission factors. A process flow diagram of the existing Wedron processing plant is provided in Figure 2.

Wedron mines sand from the Saint Peters Sandstone formation which has a vertical gradation within it, such that grain fineness increases at depth. The mining operation consists of first removing approximately 45 to 70 feet of overburden followed by drilling and blasting the sandstone. The shot sand is then dug from the muck pile with rubber tired front end loaders, loaded onto conveyor belts, run through a crusher, and pumped hydraulically to the plant's wet processing plant, located approximately 2 miles away. The sand is naturally wet when mined, so emissions of PM are not generated.

The wet sand is hydraulically pumped to the processing plant where it is dried. The dry sand is then conveyed to a 35,000-ton dry storage building. From this building the sand is sent to a screen tower were it is sized and placed into individual storage bins. At this stage of the process the sand is loaded into either railroad cars or trucks and shipped to the customer in bulk or bagged form.

The modifications along with any new equipment (as discussed in the following sections) proposed to the existing Wedron process as part of the Wedron II project have been addressed within this application. The details of the proposed Wedron II modifications are discussed in greater detail in Section 2.2 and Section 3.

2.2 Proposed Modifications

The Wedron II project will allow the facility to increase sand production to meet demand of the current customer base. To support the increase in sand production, Wedron is requesting that the current limit on the amount of total sand/aggregate processed at the processing plant of 250,000 tons per month and 2,000,000 tons per year be increased to 330,000 tons per month and 2,628,000 tons per year. This increase is due to a proposed increase in weekly production days from the current five (5) day operation to a seven (7) day operation. Wedron will demonstrate compliance with the proposed limits via monthly and 12-month rolling recordkeeping, as currently required by Permit No. 73031358 Special Condition 3b.

To accomplish the task of increasing sand yields, Wedron is planning the installation of new processing equipment. The currently permitted wet process/mining equipment will remain unchanged. Any additional *wet* processing equipment being installed as part of the Wedron II project does not require a permit as the moisture content is such that no particulate matter (PM) emissions result. This is due to the fact that sand received from the mining site is in the form of a slurry, and throughout the wet processing plant the sand continues to possess a significant moisture content.

New equipment is also planned for the dry processing portions of the plant which will necessitate a permit modification. At the dry processing plant, a new cooler is being considered (in addition to the two existing coolers) which follow the existing rotary sand dryer. The proposed, third cooler will blow ambient air into the sand as it is being agitated, similar to the existing coolers. The new cooler will possess a wet scrubber, for control of PM_{10}, also similar to the two existing coolers.

To support the increase in sand production, a new dry storage building and screening tower are also proposed. The new domed storage building will possess a 90' diameter and will be capable of storing a maximum of 5,000 tons of dry sand. A new tunnel conveyor and bucket elevator will transfer the sand to one of two (2) new sifters. Following the sifters, sand will be stored in new storage silos based upon size classification.

Additional modifications are planned for the railcar and truck loadout stations. The Wedron II project will also include the replacement of three (3) existing wet scrubber controls with three (3) new baghouse dust collectors for improved efficiency at the dry processing plant. One of these collectors will control the railcar loadout area in addition to the new dry sand processing equipment being proposed as part of the Wedron II project.

Additional details regarding the quantity, operating rate, throughput capacity, air flow rate (if applicable), and potential emissions for each individual piece of equipment or control device is provided in Section 3. A process flow diagram of the proposed Wedron II plans is provided in Figure 3. It should be noted that the process flow diagram in Figure 3 does not include all existing Wedron equipment (see Figure 2 for the existing process flow diagram).

3.0 PROPOSED PERMIT MODIFICATIONS AND AMENDMENTS

3.1 Dry Sand Processing Equipment Modifications

3.1.1 Sand Cooler No. 3

Following the existing rotary sand dryer, sand will be discharged to an existing dryer discharge conveyor which will transfer sand to a new, 3-way splitter gate. The 3-way splitter gate will be installed to distribute sand to one of three cooler surge bins. Wedron currently possesses only two (2) cooler surge bins, however, the installation of a third cooler is being considered which would require a third cooler surge bin. The cooler surge bins will be modified such that the new bin will be combined with the two existing bins to form a single unit with divider walls separating the three (3) bins.

The new cooler is being considered to alleviate the burden on the two existing coolers located at the Wedron facility. The new cooler will be capable of processing sand at a rate equal to the two existing coolers. The proposed, third cooler will blow ambient air into the sand as it is being agitated, similar to the existing coolers. The new cooler will exhaust to a wet scrubber, also similar to the two existing coolers. After the sand has been cooled, a new conveyor would be installed at the exit of the new cooler to transfer sand to the existing conveyor which currently receives sand from the two existing coolers.

The proposed addition of a third cooler with the associated surge bin and exit conveyor will not result in an increase of potential emissions as the current permit includes limits on PM_{10} emissions from the existing cooler operations. However, "Attachment A – Emission Summary" of Permit No. 73031358 provides an annual throughput of 1,872,000 tons. As previously indicated, Wedron is proposing a revised annual throughput for the facility of 2,628,000 tons, which the current two coolers can support. Wedron is requesting that the annual throughput for the two existing coolers be modified from 1,872,000 tons to 2,628,000 tons, and that the third proposed cooler be incorporated into the permit with the two existing coolers. The emission control for the third proposed cooler will be similar to the wet scrubbers controlling the existing coolers. Since the level of control from the proposed cooler will match the existing coolers, and the fact that the two current coolers will support a throughput increase to 2,628,000 tons, the third cooler will not increase potential emissions from cooler operations. However, the proposed increase in potential emissions resulting from the throughput increase has been evaluated. Revised potential PM_{10} emissions are calculated in Table 1.

3.1.2 Dry Storage Building Conveyors

The existing transfer conveyor, which moves sand from the cooler operations, will continue to transfer sand to the existing dry storage area. However, a new gate which diverts sand to one of two conveyors will be installed on the existing transfer conveyor. The new gate will divert sand to a new 30" enclosed conveyor (approximately 110' in length) transferring sand to another new 30" conveyor (approximately 280' in length). The second, new 30" conveyor will then transfer the sand to a new, domed dry sand storage building. The two (2) transfer points located where the transfer conveyors meet will result in uncontrolled PM emissions. The potential PM_{10}

emission rate from this activity can be calculated utilizing emission factors from the United States Environmental Protection Agency (USEPA) FIRE v. 6.24 Database. An emission factor of 0.0064 lb PM_{10}/ton material has been utilized for SCC 3-05-025-03, Construction Sand/Gravel Material Transfer and Conveying (uncontrolled). Potential PM_{10} emissions are calculated in Table 2.

The new domed storage building will possess a 90' diameter and will be capable of storing a maximum of 5,000 tons of dry sand. Below the sand pile in the new dry storage building will be three (3) drop points which will transfer the dry sand to a new 30" conveyor enclosed by a tunnel. As the dry storage building, drop points, and new tunnel conveyor are completely enclosed, PM emissions are not expected from these sources. PM emissions are expected at the transfer point where the tunnel conveyor meets a new bucket elevator (see next section).

3.1.3 Scalp Screener Bucket Elevator

The new 30" dry storage shed tunnel conveyor will transfer sand to a new, enclosed bucket elevator. The new bucket elevator will be controlled by the proposed baghouse dust collector located in the rail loading area. Potential PM_{10} emissions are calculated in Table 2 based upon the NSPS Subpart OOO emission standard for PM applicable to the proposed rail loading baghouse control device (to be discussed in Section 4.1.2).

3.1.4 Scalp Screener

Exiting the new scalp screener bucket elevator, sand will be routed to a scalp screener. The proposed Wedron II sand screening operations will occur in a screen building. The building will be fully enclosed on the top and partially enclosed on the sides. Sand will initially enter the new scalp screener where sand can be routed to either a new 100 ton waste bin or the sifters (see following section).

Potential PM_{10} emissions are calculated in Table 2 based upon the NSPS Subpart OOO emission standard for PM applicable to the proposed rail loading baghouse control device.

3.1.5 Sifters

Sand will travel through one of two (2) new sifters via the new scalp screener and splitter gate. Sand exiting the new scalp screener will enter a new splitter gate where it will be diverted to one of the two new sifters. The sifters will screen/scalp sand by size classification. Potential PM_{10} emissions are calculated in Table 2 based upon the NSPS Subpart OOO emission standard for PM applicable to the proposed rail loading baghouse control device.

3.1.6 4 - Sifter Bucket Elevators

Following the sifters, sand will enter one of four (4) new, enclosed bucket elevators. The sand will drop through the elevators by way of gravity. Each elevator will serve an individual storage silo based upon the size classification of the sand particles. Potential PM_{10} emissions are calculated in Table 2 based upon the NSPS Subpart OOO emission standard for PM applicable to the proposed rail loading baghouse control device.

3.1.7 4 - Sand Storage Silos

As previously indicated, the four sifter bucket elevators will serve four sand storage silos based upon the size classification of the sand particles. Three of the storage silos will possess a 300 ton capacity. The fourth storage silo will be split into two (2) 150 ton sections. Exhaust from the four (4) silos will also be controlled by the dust collector located in the rail loading area. Potential PM_{10} emissions are calculated in Table 2 based upon the NSPS Subpart OOO emission standard for PM applicable to the proposed rail loading baghouse control device.

3.1.8 5 - Silo Drop Points

Five (5) new drop points installed with gates will feed directly onto a new 30" conveyor. The five drop points are located at the bottom of the sand storage silos (one drop point for each full silo and two drop points for the split silo). The drop points will be controlled by the dust collector located in the rail loading area. Potential PM_{10} emissions are calculated in Table 2 based upon the NSPS Subpart OOO emission standard for PM applicable to the proposed rail loading baghouse control device.

3.1.9 Silo Conveyor

A new 30" enclosed conveyor will transfer sand from the five silo drop points to a new bucket elevator serving the loadout area. Similar to other handling/storage/transfer equipment controlled by the rail loading dust collector, potential PM_{10} emissions are calculated in Table 2 based upon the NSPS Subpart OOO emission standard for PM applicable to the proposed rail loading baghouse control device.

3.1.10 Loadout Bucket Elevator

A new loadout bucket elevator will be served by the proposed 30" silo conveyor. The new bucket elevator will serve the existing loadout area. As with the other dry processing equipment proposed for Wedron II, the elevator will be controlled by the rail loading dust collector. Potential PM_{10} emissions are calculated in Table 2 based upon the NSPS Subpart OOO emission standard for PM applicable to the proposed rail loading baghouse control device.

3.1.11 Railcar Loadout Station

Following the bucket elevator serving the loadout area, a new 6-way splitter gate will be installed which may direct sand to any of four (4) loadout options. First, sand may be transferred into an existing loadout storage bin for distribution to the existing railcar loadout station. Second, sand may be loaded into a re-activated loadout storage bin for distribution to the existing railcar loadout station. Third, sand may be diverted onto an existing 24" railroad cross-over conveyor ("Mill B") for transfer to the existing truck loadout station. Lastly, sand may be transferred into an existing 60 ton waste bin. It should be noted that two (2) existing conveyors from the existing screen house will continue to transfer sand to either the existing loadout storage bin for railcar loadout or to the existing railroad cross-over conveyor for truck loadout. The existing 60 ton waste bin will continue to be fed via an existing splitter gate off the existing screen house conveyor servicing the truck loadout station. The waste bin serves as a slurry tank if sand does not meet certain quality standards.

The railcar loadout station will be served by a new 30" conveyor receiving sand from either the existing loadout storage bin or the re-activated loadout storage bin. A new loadout spout with associated chutework will be installed on the railcar loadout station.

Potential emissions from these sources are discussed in the following paragraphs. The remainder of the equipment either currently exists and will not be modified, or will not result in PM emissions (e.g., splitter gates).

3.1.12 Railcar Loadout Conveyor

As previously mentioned, a new 30" enclosed conveyor for the railcar loadout area will be installed as part of the Wedron II project. The new conveyor will transfer sand from the existing and re-activated loadout storage bins to the new railcar loadout spout. Similar to other handling/storage/transfer equipment controlled by the rail loading dust collector, potential PM_{10} emissions are calculated in Table 2 based upon the NSPS Subpart OOO emission standard for PM applicable to the proposed rail loading baghouse control device.

3.1.13 Railcar Loadout Spout

As previously discussed, a new railcar loadout spout with associated chutework will be installed on the railcar loadout station. Potential PM_{10} emissions are calculated in Table 2 based upon the use of the proposed rail loading baghouse collector.

3.1.14 Truck Loadout Stations

The Wedron facility currently possesses four (4) truck loadout areas. Following the Wedron II project changes, the facility will continue to possess four (4) truck loadout areas with four (4) loadout spouts.

Wedron currently includes two (2) "Sizing Truck Loadout" areas. Each particular area includes a loadout spout. A new dust collector rated at approximately 18,000 acfm is being proposed as part of the Wedron II process to replace the existing wet scrubber controlling the two spouts for improved efficiency (see Section 3.3). The remainder of this area is not being modified.

The third truck loadout area is served by the Mill B belt conveyor. This area is currently controlled by a Sly baghouse dust collector (4,600 cfm). New chutework feeding sand from an existing hopper to the new spout will be installed and controlled by the existing Sly baghouse.

Prior to the hoppers, a new 4-way turnhead will also be installed in this area to direct sand to the remaining spout or a new 24" delivery conveyor servicing the existing bagging building. A new truck scale will also be installed for this particular truck loadout station.

The final truck loadout area currently includes one (1) uncontrolled loadout area. This particular area will be routed to the existing Sly scrubber (DC-02) for control as part of the Wedron II project.

Revised potential PM_{10} emissions for the truck loadout stations are calculated in Table 1.

3.1.15 Bagging Station

The third alternative for finished sand (in addition to the railcar and truck loadout stations) is the bagging operation. However, modifications to the bagging operation have not been proposed for Wedron II.

3.2 Dry Sand Control Equipment Modifications

3.2.1 Rail Loading Baghouse Collector

A new dust collector rated at approximately 20,000 acfm and fan will be installed to capture PM emissions from all equipment expected to be installed from the sifter/screening units through the railcar loadout station. The dust collector will replace the existing wet scrubber (DC-08: Venturi A33026) which currently serves the railcar loadout area.

3.2.2 Truck Loading Baghouse Collector

The "Sizing Truck Loadout" area is currently controlled by a wet scrubber (DC-07: BACT ME018). The new dust collector rated at approximately 18,000 acfm mentioned above will replace the existing wet scrubber for improved efficiency.

3.2.3 Screen House Baghouse Collector

The existing screen house (discussed in Section 2.1) is currently controlled by a wet scrubber (DC-06: BACT ME042). However, Wedron is proposing to replace the existing wet scrubber

with a more efficient baghouse dust collector control device. A new dust collector rated at approximately 42,000 acfm and fan will be installed to capture PM emissions from the existing screen house (which includes sand screening, conveying and storage operations). Other than the change in control device, there are no modifications planned to the processing equipment in this area as part of the Wedron II project.

3.3 Existing Permit Amendments

Wedron would also like to address certain amendments to Permit No. 73031358 that do not pertain to the Wedron II project as part of this application. The amendments have been detailed below.

3.3.1 Special Condition References

There are several references within the Special Conditions to other Special Conditions that appear to be inaccurate. For instance, Special Condition No. 6(a) addresses moisture content tests, and includes a reference to Special Condition No. 5(a)(i). However, Special Condition No. 5(a)(i) pertains to wet scrubber monitoring and does not pertain to moisture content requirements. Rather, it appears that Special Condition No. 4(a)(i) includes a requirement to sample the moisture content and would appear to be the appropriate reference. Therefore, the following amendment is requested:

*"6a. If the Permittee is relying on ~~5(a)(i)~~ **4(a)(i)** above to show compliance...."*

Special Condition No. 6(a) also includes a reference to Special Condition No. 5(a)(ii) for maintaining operating logs for water spray equipment. However, Special Condition No. 5(a)(ii) again pertains to wet scrubber monitoring. Wedron believes the reference may pertain to Special Condition No. 4(a)(ii) as this condition provides water spray requirements. Therefore, the following amendment to the second paragraph of Special Condition No. 6(a) is requested:

*"6a. If the Permittee is relying on ~~5(a)(ii)~~ **(4(a)(ii)** above to show compliance ..."*

Special Condition No. 6(b) references Special Condition No. 3(a)(ii) to maintain "*weekly records of water consumption in the spray equipment as determined by the meter required by Condition 3(a)(ii).*" Wedron believes the reference should pertain to Special Condition No. 4(a)(ii)(B) as this condition requires a metering device to determine water usage for the spray equipment. Therefore, the following amendment to Special Condition No. 6(b) is requested:

> "*6b. The permittee shall maintain weekly records of water consumption in the spray equipment, as determined by the meter required by Condition* ~~*3(a)(ii)*~~ ***4(a)(ii)(B)***."

3.3.2 PM_{10} Annual Emissions

Attachment A of Permit No. 73031358 provides a summary of the maximum emissions from the Wedron facility based upon information provided in the original State Operating Permit application. The PM_{10} emissions provided in Attachment A are based upon the annual throughputs for each respective emission unit and a PM_{10} emission factor. However, the annual emissions estimates for equipment listed in Attachment A appear to have been calculated based upon improper and older PM_{10} emission factors. Wedron would like to amend the permit to reflect annual emissions for these units based upon more recent, applicable PM_{10} emission factors. Wedron would also like to amend the annual emission estimates provided in Attachment A based upon the requested annual throughput increases being requested (i.e., increase from 2,000,000 tons/year to 2,628,000 tons/year). The following outlines the proposed changes.

First, it should be noted that the existing annual emissions calculations for the "Conveyor/Slurry Bin", "2 sand coolers", and "3 Belt Conveyors (#25, #26, #27)" are calculated incorrectly within Permit No. 73031358. For instance, the calculation for the Conveyor/Slurry Bin results in annual PM_{10} emissions of 2.0 tons/year (2,000,000 tons/year * 0.002 lbs/ton) rather than the 2.4 tons/year listed in the permit. The changes in annual throughput and PM_{10} emission factors being requested should correct these errors.

The current PM_{10} emission factors from the original State Operating Permit application appear to have been based upon USEPA publication AP-42, Section 11.19.2 for "Crushed Stone

Processing and Pulverized Mineral Processing." These factors should be applicable to the permitted sources located within the mining operation, however, the emission factors provided in AP-42, Section 11.19.1 for "Sand and Gravel Processing" are more appropriate for emission sources located at the processing plant. AP-42 clearly associates each emission source with a Source Classification Code (SCC), but emission factors for most sources are not included in AP-42. Therefore, Wedron has relied upon the USEPA FIRE Database for emission factors using the SCC's defined in AP-42, as this database provides more comprehensive emission factors.

The updated emissions estimates are provided in Table 1. This summary table includes the current and proposed PM_{10} emission factors and annual throughput limitations for existing emission units at the Wedron facility.

3.3.3 Rotary Sand Dryer

The dry processing plant begins with the 80 MMBtu per hour natural gas-fired rotary sand dryer which removes moisture from the sand. There are no modifications planned for the rotary sand dryer as the current design capacity of the dryer will support the Wedron II project. The existing wet scrubber will continue to control the rotary dryer.

Nevertheless, it appears that when the rotary sand dryer was originally permitted, the federal New Source Performance Standard (NSPS) at 40 CFR Part 60, Subpart OOO was evaluated rather than Subpart UUU. Subpart OOO contains standards of performance for nonmetallic mineral processing plants. Per 40 CFR 60.671, the definition of "nonmetallic mineral processing plant" means any combination of equipment that is used to crush or grind any nonmetallic mineral wherever located, including lime plants, power plants, steel mills, asphalt concrete plants, portland cement plants, or any other facility processing nonmetallic minerals..." Furthermore, 40 CFR 60.670 states "the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station." As the rotary sand dryer does not crush or grind the sand at the Wedron plant, and a dryer is not one of the affected facilities, it does not appear that Subpart OOO was applicable at the time the dryer was installed. Subpart OOO is currently

applicable to other existing equipment present at the Wedron facility pursuant to Permit No. 73031358, Special Condition No. 2.

Wedron believes that Subpart UUU, which contains standards of performance for calciners and dryers in mineral industries, should have been evaluated rather than Subpart OOO. The dryer is subject to Subpart UUU as construction commenced after April 23, 1986. The Wedron facility has complied with the requirements of Subpart OOO as if they were applicable to the dryer since its installation. Since the standards for particular matter in Subpart OOO are more stringent than Subpart UUU (0.05 g/dscm and 7 percent opacity versus 0.057 g/dscm and 10 percent opacity, respectively) the Wedron facility has also satisfied the Subpart UUU requirements for the dryer. Also, the monitoring, testing, reporting and recordkeeping requirements for each standard are essentially equivalent. Therefore, compliance with Subpart OOO has also resulted in compliance with Subpart UUU. In order to clarify the appropriate NSPS for the rotary sand dryer located at the Wedron facility, Wedron is requesting that the permit be updated to reflect Subpart UUU as applicable to the rotary sand dryer rather than Subpart OOO.

In addition, Wedron is proposing amendments to the NOx and CO emissions provided in Attachment A of Permit No. 73031358. The emissions are based upon obsolete AP-42 emission factors. In order to ensure that the emission estimates provided in the permit are consistent with the USEPA's recommended emission factors, Wedron has provided updated emission calculations in Table 1. The current emission limits are based upon NOx and CO emission factors of 140 lb/MMscf and 35 lb/MMscf, respectively, pursuant to AP-42, Section 1.4 "Natural Gas Combustion." The current limits are also based upon a reduced firing rate of the dryer (360 MMscf/year). At this time, Wedron is proposing updated NOx and CO emission estimates based upon current AP-42 emission factors and a maximum firing rate of 80 MMBtu/hr. The current AP-42 NOx and CO emission factors are 100 lb/MMscf and 84 lb/MMscf, respectively.

4.0 REGULATORY ANALYSIS

4.1 Federal Regulatory Review

4.1.1 Federal New Source Review

The Wedron facility is located within an area that has attained the National Ambient Air Quality Standards (NAAQS) for all criteria pollutants. Wedron has evaluated the applicability of federal and state air quality regulations accordingly. Based on the existing emission limitations and potential emissions as a result of the Wedron II modifications outlined in Tables 1 and 2, potential emissions of CO, NO_x, VOC, SO_2, PM10, PM, and lead from the Wedron facility will not exceed the major source thresholds under the federal New Source Review-Prevention of Significant Deterioration (NSR-PSD) Program (i.e., 250 TPY of any criteria pollutant). As such, Wedron does not believe that the facility or the changes proposed herein are subject to review under the federal NSR program.

4.1.2 New Source Performance Standards

Certain equipment currently present at the Wedron facility is subject to New Source Performance Standards (NSPS). In particular, 40 CFR Part 60, Subpart OOO standards of performance for Nonmetallic Mineral Processing Plants with capacities greater than 25 tons per hour for fixed sand and gravel plants constructed, reconstructed or modified after August 31, 1983, are applicable to the existing Wedron facility. As the Wedron facility is planning to install (i.e., construct) a screening operation, bucket elevators, belt conveyors and storage bins as part of the Wedron II project, Subpart OOO will apply to such equipment.

Accordingly, Wedron will comply with the PM standards of Subpart OOO and any applicable monitoring, testing, reporting or recordkeeping requirements. Compliance with the requirements of Subpart OOO will also satisfy Permit No. 73031358, Special Conditions No. 2a and 2b.

As previously discussed in Section 3.3.3, in order to clarify the appropriate NSPS for the rotary sand dryer located at the facility, Wedron is requesting that the permit be updated to reflect Subpart UUU for the rotary sand dryer rather than Subpart OOO.

4.1.3 Hazardous Air Pollutants 112(g) Applicability

Because Wedron is not a major source of HAPs, and there are no new or reconstructed sources of HAPs being proposed as part of the Wedron II project, there are no applicable MACT requirements under Rule 112(g).

4.1.4 Hazardous Air Pollutants 112(d) Applicability

There are no Categorical MACT standards under Section 112(d) which apply to the Wedron facility.

4.2 State Regulatory Review

4.2.1 State New Source Review

Submittal of this application addresses the State of Illinois' minor NSR program requirements. As Wedron will continue to be classified as a true minor source, the facility will not be subject to the Clean Air Act Permit Program (CAAPP) or the Federally Enforceable State Operating Permit (FESOP) permitting requirements. The PTE of the facility subsequent to the installation of the proposed Wedron II equipment will continue to meet the criteria of a Lifetime Operating Permit.

4.2.2 State of Illinois Rules and Regulations – Subpart K: Fugitive Particulate Matter

The air pollution control rules contain standards and limitations for particulate matter emissions in Part 212 Subpart K of the Illinois Administrative Code (Title 35). The standards applicable to the Wedron II project have been addressed below.

4.2.2.1 Section 212.301 (Rule 301) - Fugitive Particulate Matter

This section states:

> *"No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source."*

Wedron is currently subject to this requirement pursuant to Permit No. 73031358, Special Condition 8. As such, the equipment installed as part of the Wedron II project will also be subject to this requirement.

4.2.2.2 Section 212.307 (Rule 307) – Materials Collected by Pollution Control Equipment

This section states:

> *"All unloading and transporting operations of materials collected by pollution control equipment shall be enclosed or shall utilize spraying, pelletizing, screw conveying or other equivalent methods."*

As previously indicated, the dry sand processing equipment proposed for Wedron II will be controlled by a baghouse dust collector or wet scrubber. Consequently, Wedron will unload and transfer all materials collected by the control devices in accordance with a method or equivalent method to those provided in Rule 307.

4.2.2.3 Section 212.308 (Rule 308) – Spraying or Choke-Feeding Required

This section states:

> *"Crushers, grinding mills, screening operations, bucket elevators, conveyor transfer points, conveyors, bagging operations, storage bins and fine product truck and railcar loading operations shall be sprayed with water or a surfactant solution, utilize choke-feeding or be treated by an equivalent method in accordance with an operating program."*

Wedron II will include the installation of additional screening operations, bucket elevators, conveyor transfer points and storage bins as part of the dry sand processing. As previously indicated, such equipment will possess enclosures and will be controlled by a baghouse dust

collector. Furthermore, the equipment will be incorporated into the facility's Fugitive Dust Plan. Accordingly, Wedron will continue to meet the requirement of Rule 308.

4.2.2.4 Section 212.309 (Rule 309) – Operating Program

This section states:

> *"a) The emission units described in Sections 212.304 through 212.308 and Section 212.316 of this Subpart shall be operated under the provisions of an operating program, consistent with the requirements set forth in Sections 212.310 and 212.312 of this Subpart, and prepared by the owner or operator and submitted to the Agency for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions."*

As mentioned earlier, Wedron plans to update its Fugitive Dust Plan (i.e., "operating program") to accommodate the equipment modifications contained in this application. The Fugitive Dust Plan will be updated in accordance with the minimum requirements listed in Rule 310 as well. An amended Plan will be submitted to the Agency for review pursuant to Rule 312.

4.2.3 State of Illinois Rules and Regulations – Subpart L: Particulate Matter Emissions From Process Emission Units

Section 212.321 (Rule 321) requires that process emission units for which construction or modification commenced on or after April 14, 1972 shall not cause or allow the emission of PM into the atmosphere in any one hour period to exceed the allowable emission rate.

The lowest, maximum process weight rate for any of the proposed Wedron II equipment is 200 TPH. Utilizing the process weight rate equation ($E = A*P^B$) provided in Rule 321, the allowable emission rate for the proposed Wedron II emission units can be calculated as follows:

$E = A*P^B$

P = Process weight rate;

E = Allowable emission rate;

$A = 2.54$

$B = 0.534$

$E = 2.54 * (200\ TPH)^{0.534} =$ **43.0 lb PM/hr**

Based upon the process weight rate, the allowable emission rate for individual emission units proposed under the Wedron II project is 43.0 lb PM/hr. However, the potential PM emission rate from the proposed emission units can also be calculated based upon the emission factors discussed in Section 3.1. The worst-case emission unit (scalp screener or sifters) was analyzed to determine compliance for all emission units proposed under the Wedron II project. These particular emission units possess the greatest uncontrolled emission factor (0.12 lb PM/ton) and similar maximum hourly throughputs as the other proposed units. This resulted in potential hourly PM emissions of 30.0 lb PM/hr, as follows:

E = Emission Factor * Maximum Hourly Throughput

E = 0.12 lb/ton * 200 tons/hour = **24.0 lb PM/hr**

As the potential hourly PM emissions for a worst-case emission unit (24.0 lb PM/hr) is less than the allowable emission rate calculated utilizing the process weight rate equation (43.0 lb PM/hr) it can be assumed that all of the proposed emission units will satisfy Rule 321. In general, sources subject to an NSPS are considered in compliance with Process Weight Rate requirement for PM because NSPS is more stringent than State Reasonably Available Control Technology (RACT) requirements.

5.0 CONCLUSION

Based upon the information contained herein, Wedron Silica Company believes the proposed modifications to the facility meet all applicable air pollution control requirements. Therefore, Wedron is requesting a Permit to Construct for the proposed modifications from the Wedron II project. This application also serves as a request to revise the existing Lifetime Operating Permit

for the Wedron facility to incorporate the proposed Wedron II changes pursuant to Special Condition No. 12 of Permit No. 73031358.

Tables

TABLE 1

Wedron Silica Company
Summary of Criteria Pollutant Emissions

WEDRON I EXISTING EQUIPMENT (PERMIT No. 73031358)

Control Equipment Description Emission Unit Description	SCC	CURRENT		PROPOSED		CURRENT	PROPOSED
		Source Capacity/ Rating	Units for Capacity/ Rating	Source Capacity/ Rating	Units for Capacity/ Rating	Hours of Operation	
WEDRON I EXISTING EQUIPMENT (Permit No. 73031358))							
Proposed 20,000 acfm Baghouse (formerly Venturi A33026 Scrubber DC-08)							
Rail Loadout (New spout with associated chutework)	3-05-025-06	1,497,600	tons product	2,102,400	tons product	6,240	8,760
Sly 170 Scrubber DC-03							
Belt Conveyors (#25, #26, #27)	3-05-027-60	1,872,000	tons product	2,628,000	tons product	6,240	8,760
Belt Conveyor #10	3-05-027-60	1,872,000	tons product	2,628,000	tons product	6,240	8,760
Cooling Transfer Point (#2)	3-05-027-60	936,000	tons product	1,314,000	tons product	6,240	8,760
BACT 027 Scrubber DC-04/ BACT 027 Scrubber DC-05							
Sand Coolers (FC-01 and FC-02)	3-05-027-60	1,872,000	tons product	2,628,000	tons product	6,240	8,760
Proposed 42,000 acfm Baghouse (formerly BACT ME042 Scrubber DC-06)							
Sand Screening, Conveying and Storage	3-05-025-11	1,872,000	tons product	2,628,000	tons product	6,240	8,760
Proposed 18,000 acfm Baghouse (formerly BACT ME018 Scrubber DC-07)							
Sizing Truck Loadouts (LS-01, LS-02)	3-05-025-06	936,000	tons product	1,314,000	tons product	6,240	8,760
BACT ME 25,000 acfm Scrubber DC-11							
Natural Gas Fired Rotary Dryer	3-05-027-20	360	MMscf/yr	80	MMBtu/hr	6,240	8,760
Water Spray							
Mobile Crusher	3-05-020-01	2,000,000	tons product	2,628,000	tons product	6,240	8,760
Double Deck Screen	3-05-020-06	2,000,000	tons product	2,628,000	tons product	6,240	8,760
Unloading Hopper	3-05-020-06	2,000,000	tons product	2,628,000	tons product	6,240	8,760
Conveyor/Slurry Bin	3-05-020-06	2,000,000	tons product	2,628,000	tons product	6,240	8,760
Sly 170 Scrubber DC-02							
Conveyor #9	3-05-027-60	1,872,000	tons product	2,628,000	tons product	6,240	8,760
Cooling Transfer Point (#1)	3-05-027-60	936,000	tons product	1,314,000	tons product	6,240	8,760
Cooler Feed Bin	3-05-027-60	1,872,000	tons product	2,628,000	tons product	6,240	8,760
2 Cooler Feeders	3-05-027-60	1,872,000	tons product	2,628,000	tons product	6,240	8,760
Two (2) Sand Baggers	3-05-025-06	187,200	tons product	262,800	tons product	6,240	8,760
Truck Loadout (LS-04)	3-05-025-06	468,000	tons product	657,000	tons product	6,240	8,760
Sly Baghouse CF64SB (4,600 cfm)							
4 Small Bins	3-05-027-60	37,440	tons product	52,560	tons product	6,240	8,760
9 Large Bins	3-05-027-60	149,760	tons product	210,240	tons product	6,240	8,760
Mill B Belt Conveyors (to 1 Truck loadout spout)	3-05-025-03	187,200	tons product	262,800	tons product	6,240	8,760
Mill B Truck Loadout (LS-03)	3-05-025-06	468,000	tons product	657,000	tons product	6,240	8,760

TABLE 1

Wedron Silica Company
Summary of Criteria Pollutant Emissions

WEDRON I EXISTING EQUIPMENT (PERMIT No. 73031358)

Control Equipment Description / Emission Unit Description	CURRENT PM-10 AP-42, Section 11.19.2 EF	EF Units	TPY	PROPOSED PM-10 AP-42, Section 11.19.1 / FIRE Database EF	EF Units	Removal Efficiency	Potential (tpy)
WEDRON I EXISTING EQUIPMENT (Permit No. 73031358))							
Proposed 20,000 acfm Baghouse (formerly Venturi A33026 Scrubber DC-08)							
Rail Loadout (New spout with associated chutework)	0.0014	lb/ton	1.05	0.0024	lb/ton (uncontrolled)	99.00%	0.03
Sly 170 Scrubber DC-03							
Belt Conveyors (#25, #26, #27)	0.000028	lb/ton	0.03	0.0013	lb/ton (wet scrubber)	90.00%	1.71
Belt Conveyor #10	0.0014	lb/ton	1.31	0.0013	lb/ton (wet scrubber)	90.00%	1.71
Cooling Transfer Point (#2)	0.000028	lb/ton	0.01	0.0013	lb/ton (wet scrubber)	90.00%	0.85
BACT 027 Scrubber DC-04/ BACT 027 Scrubber DC-05							
Sand Coolers (FC-01 and FC-02)	0.000028	lb/ton	0.03	0.0013	lb/ton (wet scrubber)	90.00%	1.71
Proposed 42,000 acfm Baghouse (formerly BACT ME042 Scrubber DC-06)							
Sand Screening, Conveying and Storage	0.00084	lb/ton	0.79	0.12	lb/ton (uncontrolled)	99.00%	1.58
Proposed 18,000 acfm Baghouse (formerly BACT ME018 Scrubber DC-07)							
Sizing Truck Loadouts (LS-01, LS-02)	0.0014	lb/ton	0.66	0.0024	lb/ton (uncontrolled)	99.00%	0.02
BACT ME 25,000 acfm Scrubber DC-11							
Natural Gas Fired Rotary Dryer	(Not included in existing permit)			0.025	gr/dscf[1]	-	15.99
Water Spray							
Mobile Crusher	0.002	lb/ton	2.00	0.002	lb/ton	90.00%	2.63
Double Deck Screen	0.00084	lb/ton	0.84	0.00084	lb/ton	90.00%	1.10
Unloading Hopper	0.000016	lb/ton	0.02	0.000016	lb/ton	90.00%	0.02
Conveyor/Slurry Bin	0.000048	lb/ton	0.05	0.000048	lb/ton	90.00%	0.06
Sly 170 Scrubber DC-02							
Conveyor #9	0.000028	lb/ton	0.03	0.0013	lb/ton (wet scrubber)	90.00%	1.71
Cooling Transfer Point (#1)	0.000028	lb/ton	0.01	0.0013	lb/ton (wet scrubber)	90.00%	0.85
Cooler Feed Bin	0.000028	lb/ton	0.03	0.0013	lb/ton (wet scrubber)	90.00%	1.71
2 Cooler Feeders	0.000028	lb/ton	0.03	0.0013	lb/ton (wet scrubber)	90.00%	1.71
Two (2) Sand Baggers	0.000028	lb/ton	0.00	0.0024	lb/ton (uncontrolled)	90.00%	0.032
Truck Loadout (LS-04)	0.0014	lb/ton	0.33	0.0024	lb/ton (uncontrolled)	90.00%	0.08
Sly Baghouse CF64SB (4,600 cfm)							
4 Small Bins	0.0014	lb/ton	0.03	0.013	lb/ton (uncontrolled)	0.00%	0.34
9 Large Bins	0.0014	lb/ton	0.10	0.013	lb/ton (uncontrolled)	0.00%	1.37
Mill B Belt Conveyors (to 1 Truck loadout spout)	0.0014	lb/ton	0.13	0.0064	lb/ton (uncontrolled)	99.00%	0.01
Mill B Truck Loadout (LS-03)	0.0014	lb/ton	0.33	0.0024	lb/ton (uncontrolled)	99.00%	0.01
			7.78				35.21

[1] NSPS Subpart UUU Standard for PM. Stack testing results at 3.22 lbs/hr demonstrating compliance with NSPS.

TABLE 1

Wedron Silica Company
Summary of Criteria Pollutant Emissions

WEDRON I EXISTING EQUIPMENT (PERMIT No. 73031358)

Control Equipment Description Emission Unit Description	CRITERIA POLLUTANTS							
	NO_x				CO			
	EF	EF Units	CURRENT Potential (tpy)	PROPOSED Potential (tpy)	EF	EF Units	CURRENT Potential (tpy)	PROPOSED Potential (tpy)
WEDRON I EXISTING EQUIPMENT (Permit No. 73031358))								
Proposed 20,000 acfm Baghouse (formerly Venturi A33026 Scrubber DC-08)								
Rail Loadout (New spout with associated chutework)	-	-	-	-	-	-	-	-
Sly 170 Scrubber DC-03								
Belt Conveyors (#25, #26, #27)	-	-	-	-	-	-	-	-
Belt Conveyor #10	-	-	-	-	-	-	-	-
Cooling Transfer Point (#2)	-	-	-	-	-	-	-	-
BACT 027 Scrubber DC-04/ BACT 027 Scrubber DC-05								
Sand Coolers (FC-01 and FC-02)	-	-	-	-	-	-	-	-
Proposed 42,000 acfm Baghouse (formerly BACT ME042 Scrubber DC-06)								
Sand Screening, Conveying and Storage	-	-	-	-	-	-	-	-
Proposed 18,000 acfm Baghouse (formerly BACT ME018 Scrubber DC-07)								
Sizing Truck Loadouts (LS-01, LS-02)	-	-	-	-	-	-	-	-
BACT ME 25,000 acfm Scrubber DC-11								
Natural Gas Fired Rotary Dryer	100 140	lb/MMscf lb/MMscf	- 25.2	35.0 -	84 35	lb/MMscf lb/MMscf	- 6.3	29.4 -
Water Spray								
Mobile Crusher	-	-	-	-	-	-	-	-
Double Deck Screen	-	-	-	-	-	-	-	-
Unloading Hopper	-	-	-	-	-	-	-	-
Conveyor/Slurry Bin	-	-	-	-	-	-	-	-
Sly 170 Scrubber DC-02								
Conveyor #9	-	-	-	-	-	-	-	-
Cooling Transfer Point (#1)	-	-	-	-	-	-	-	-
Cooler Feed Bin	-	-	-	-	-	-	-	-
2 Cooler Feeders	-	-	-	-	-	-	-	-
Two (2) Sand Baggers	-	-	-	-	-	-	-	-
Truck Loadout (LS-04)	-	-	-	-	-	-	-	-
Sly Baghouse CF64SB (4,600 cfm)								
4 Small Bins	-	-	-	-	-	-	-	-
9 Large Bins	-	-	-	-	-	-	-	-
Mill B Belt Conveyors (to 1 Truck loadout spout)	-	-	-	-	-	-	-	-
Mill B Truck Loadout (LS-03)	-	-	-	-	-	-	-	-
			25.20	**35.04**			6.30	29.43

TABLE 1

Wedron Silica Company
Summary of Criteria Pollutant Emissions

WEDRON I EXISTING EQUIPMENT (PERMIT No. 73031358)

Control Equipment Description Emission Unit Description	CRITERIA POLLUTANTS							
	VOCs				SO_2			
	EF	EF Units	CURRENT Potential (tpy)	PROPOSED Potential (tpy)	EF	EF Units	CURRENT Potential (tpy)	PROPOSED Potential (tpy)
WEDRON I EXISTING EQUIPMENT (Permit No. 73031358))								
Proposed 20,000 acfm Baghouse (formerly Venturi A33026 Scrubber DC-08)								
Rail Loadout (New spout with associated chutework)	-	-	-	-	-	-	-	-
Sly 170 Scrubber DC-03								
Belt Conveyors (#25, #26, #27)	-	-	-	-	-	-	-	-
Belt Conveyor #10	-	-	-	-	-	-	-	-
Cooling Transfer Point (#2)	-	-	-	-	-	-	-	-
BACT 027 Scrubber DC-04/ BACT 027 Scrubber DC-05								
Sand Coolers (FC-01 and FC-02)	-	-	-	-	-	-	-	-
Proposed 42,000 acfm Baghouse (formerly BACT ME042 Scrubber DC-06)								
Sand Screening, Conveying and Storage	-	-	-	-	-	-	-	-
Proposed 18,000 acfm Baghouse (formerly BACT ME018 Scrubber DC-07)								
Sizing Truck Loadouts (LS-01, LS-02)	-	-	-	-	-	-	-	-
BACT ME 25,000 acfm Scrubber DC-11								
Natural Gas Fired Rotary Dryer	5.5	lb/MMscf	-	1.9	0.6	lb/MMscf	-	0.2
	2.8	lb/MMscf	0.5	-	0.6	lb/MMscf	0.1	-
Water Spray								
Mobile Crusher	-	-	-	-	-	-	-	-
Double Deck Screen	-	-	-	-	-	-	-	-
Unloading Hopper	-	-	-	-	-	-	-	-
Conveyor/Slurry Bin	-	-	-	-	-	-	-	-
Sly 170 Scrubber DC-02								
Conveyor #9	-	-	-	-	-	-	-	-
Cooling Transfer Point (#1)	-	-	-	-	-	-	-	-
Cooler Feed Bin	-	-	-	-	-	-	-	-
2 Cooler Feeders	-	-	-	-	-	-	-	-
Two (2) Sand Baggers	-	-	-	-	-	-	-	-
Truck Loadout (LS-04)	-	-	-	-	-	-	-	-
Sly Baghouse CF64SB (4,600 cfm)								
4 Small Bins	-	-	-	-	-	-	-	-
9 Large Bins	-	-	-	-	-	-	-	-
Mill B Belt Conveyors (to 1 Truck loadout spout)	-	-	-	-	-	-	-	-
Mill B Truck Loadout (LS-03)	-	-	-	-	-	-	-	-
			0.50	1.93			0.11	0.21

TABLE 2

Wedron Silica Company
Summary of Criteria Pollutant Emissions

WEDRON II PROPOSED EQUIPMENT

Control Equipment Description Emission Unit Description	SCC	PROPOSED Source Capacity/ Rating	Units for Capacity/ Rating	Hours of Operation	Removal Efficiency PM-10	PM-10 AP-42, Section 11.19.1 / FIRE Database EF	EF Units	Potential (tpy)
Uncontrolled	-	-	-	-	-			
30" Conveyor (from existing cooler transfer conveyor to new 30" transfer conve	3-05-025-03	2,628,000	tons product	8,760	-	0.0064	lb/ton (uncontrolled)	8.41
30" Conveyor (from new 30" transfer conveyor to new dry storage shed)	3-05-025-03	2,628,000	tons product	8,760	-	0.0064	lb/ton (uncontrolled)	8.41
New Wet Scrubber								
Cooler No. 3 with surge bin and exiting conveyor	3-05-027-60	2,628,000	tons product	8,760	99.00%	Emissions included with 2 existing coolers.		
Proposed 20,000 acfm Baghouse						0.022	gr/dscf[1]	16.52
Bucket Elevator (from tunnel conveyor to new screening tower)	3-05-027-60	2,628,000	tons product	8,760	99.00%			
Scalp Screener	3-05-025-11	2,628,000	tons product	8,760	99.00%			
100 Ton Waste Bin	3-05-025-02	2,628,000	tons product	8,760	99.00%			
2-Sifters	3-05-025-11	2,628,000	tons product	8,760	99.00%			
4-Bucket Elevators (from new sifters to new silos)	3-05-027-60	2,628,000	tons product	8,760	99.00%			
4-300 ton storage silos	3-05-027-60	2,628,000	tons product	8,760	99.00%	NSPS Subpart OOO Standard for PM		
5-Silo Drop Points	3-05-027-60	2,628,000	tons product	8,760	99.00%			
30 " Conveyor (from storage silos to new bucket elevator)	3-05-027-60	2,628,000	tons product	8,760	99.00%			
Bucket Elevator (from new 30" Conveyor to loadout area)	3-05-027-60	2,628,000	tons product	8,760	99.00%			
30" Conveyor (from existing/re-activated storage bins to new rail loadout spout)	3-05-027-60	2,628,000	tons product	8,760	99.00%			
Railcar Loadout Spout	3-05-027-60	2,628,000	tons product	8,760	99.00%			
Existing Baghouse								
24" Conveyor (from modified truck loading area to existing bagging operation)	3-05-025-03	262,800	tons product	8,760	99.00%	0.0064	lb/ton (uncontrolled)	0.01
								33.35

[1] NSPS Subpart OOO Standard for PM.

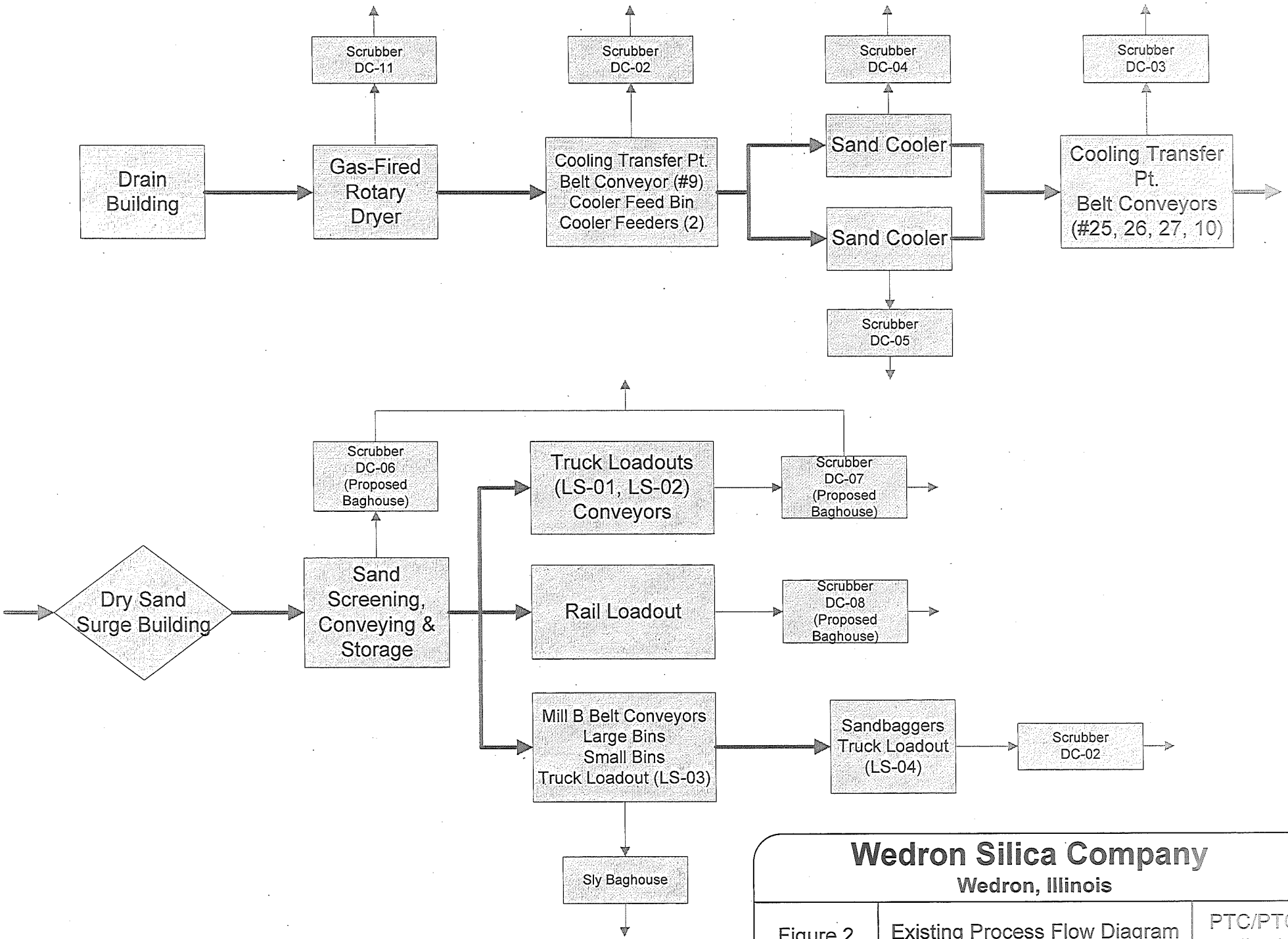
PM_{10} Potential to Emit from Existing Wedron I Equipment (tpy)	35.21
PM_{10} Potential to Emit from Proposed Wedron II Equipment (tpy)	33.35
Total PM_{10} Potential to Emit for Existing and Proposed Wedron Equipment (tpy)	68.56

Figure 1

Wedron Facility Plot Plan

Figure 2

Existing Wedron Processing Plant Process Flow Diagram



Wedron Silica Company
Wedron, Illinois

Figure 2	Existing Process Flow Diagram	PTC/PTO Application

WED0000043

Figure 3

Proposed Wedron II Processing Plant Process Flow Diagram

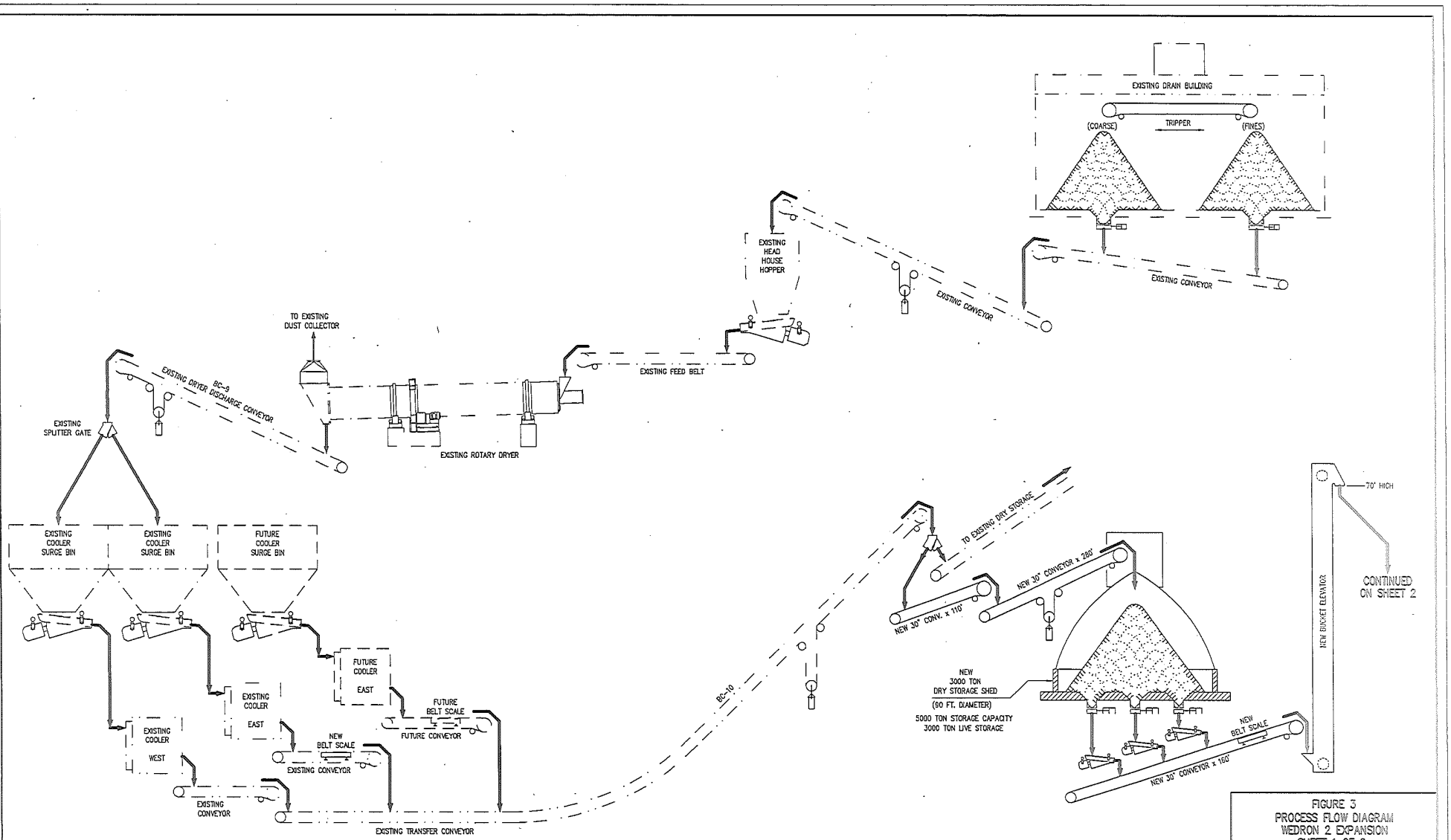


FIGURE 3
PROCESS FLOW DIAGRAM
WEDRON 2 EXPANSION
SHEET 1 OF 2

WORK THIS SHEET WITH DRAWING PF-102

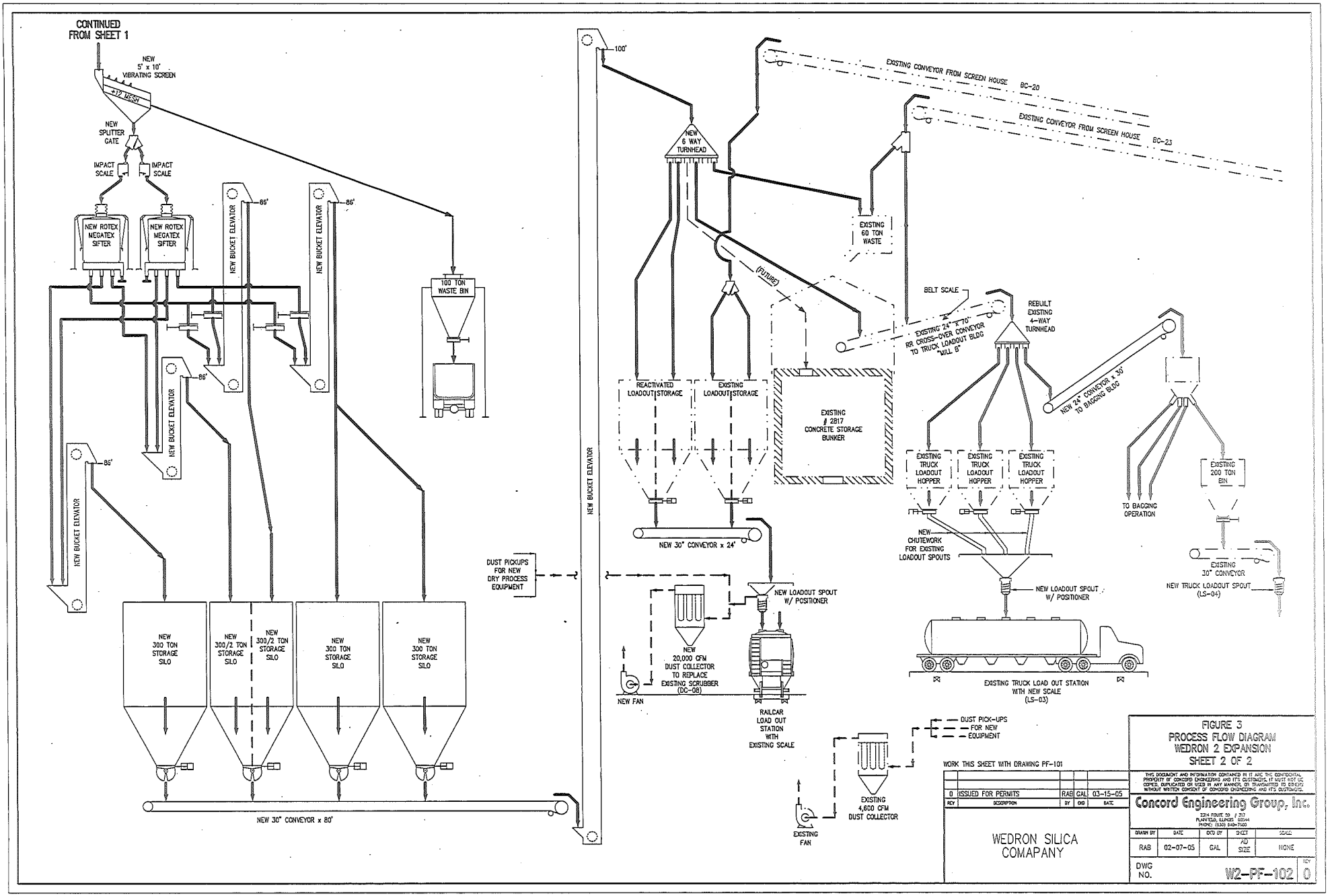
REV	DESCRIPTION	BY	CKD	DATE
0	ISSUED FOR PERMITS	RAB	GAL	03-15-05

WEDRON SILICA COMAPANY

Concord Engineering Group, Inc.
3314 ROUTE 59, # 317
PLAINFIELD, ILLINOIS 60544
PHONE: (630) 648-7000

DRAWN BY	DATE	CK'D BY	SHEET SIZE	SCALE:
RAB	02-07-05	GAL	AD	NONE

DWG NO. W2-PF-101 REV 0



Appendix A

Construction/Operating Permit Application Forms

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
PERMIT SECTION
P. O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

This Agency is authorized to require and you must disclose this information under 415 ILCS 5/39. Failure to do so could result in the application being denied and penalties under 415 ILCS 5 et seq. It is not necessary to use this form in providing this information. This form has been approved by the forms management center.

APPLICATION FOR PERMIT (A)	FOR AGENCY USE ONLY
[X] CONSTRUCT [X] OPERATE	I.D. NO.
	PERMIT NO.
NAME OF EQUIPMENT TO BE CONSTRUCTED OR OPERATED: SAND PROCESSING (B)	DATE

NOTE: THIS APPLICATION FORM IS ONLY FOR SOURCES NOT REQUIRED TO OBTAIN A FESOP OR CAAPP PERMIT PURSUANT SECTION 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT.

1a. NAME OF OWNER: FAIRMOUNT MINERALS, LTD.		2a. NAME OF OPERATOR: WEDRON SILICA COMPANY	
1b. STREET ADDRESS OF OWNER: 11830 RAVENNA ROAD		2b. STREET ADDRESS OF OPERATOR: 3450 E. 2056th ROAD	
1c. CITY OF OWNER: CHARDON		2c. CITY OF OPERATOR: WEDRON	
1d. STATE OF OWNER: OH	1e. ZIP CODE: 44024	2d. STATE OF OPERATOR: IL	2e. ZIP CODE: 60557

3a. NAME OF CORPORATE DIVISION OR PLANT: WEDRON SILICA COMPANY		3b. STREET ADDRESS OF EMISSION SOURCE: 3450 E. 2056th ROAD		
3c. CITY OF EMISSION SOURCE: WEDRON	3d. LOCATED WITHIN CITY LIMITS: [ ] YES [X] NO	3e. TOWNSHIP: DAYTON	3f. COUNTY: LaSALLE	3g. ZIP CODE: 60557

4. ALL CORRESPONDENCE TO: (TITLE AND/OR NAME OF INDIVIDUAL) MR. WAYNE WILLIAMS	5. YOUR DESIGNATION FOR THIS APPLICATION: (C) W E D R O N I I
6. ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE) [ ] OWNER [ ] OPERATOR [X] EMISSION SOURCE	7. WHO IS THE PERMIT APPLICANT? [ ] OWNER [X] OPERATOR

8. THE UNDERSIGNED HEREBY MAKES APPLICATION FOR A PERMIT AND CERTIFIES THAT THE STATEMENTS CONTAINED HEREIN ARE TRUE AND CORRECT, AND FURTHER CERTIFIES THAT ALL PREVIOUSLY SUBMITTED INFORMATION REFERENCED IN THIS APPLICATION REMAINS TRUE, CORRECT AND CURRENT. BY AFFIXING HIS/HER SIGNATURE HERETO THE UNDERSIGNED FURTHER CERTIFIES THAT HE/SHE IS AUTHORIZED TO EXECUTE THIS APPLICATION.

AUTHORIZED SIGNATURE(S): (D)

BY _____ SIGNATURE _____ DATE	BY _____ SIGNATURE _____ DATE
MR. WAYNE WILLIAMS TYPED OR PRINTED NAME OF SIGNER	_____ TYPED OR PRINTED NAME OF SIGNER
PLANT MANAGER TITLE OF SIGNER	_____ TITLE OF SIGNER

(A) THIS FORM IS TO PROVIDE THE ILLINOIS EPA WITH GENERAL INFORMATION ABOUT THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS FORM MAY BE USED TO REQUEST A CONSTRUCTION PERMIT, AN OPERATING PERMIT, OR A JOINT CONSTRUCTION AND OPERATING PERMIT.

(B) ENTER THE GENERIC NAME OF THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS NAME WILL APPEAR ON THE PERMIT WHICH MAY BE ISSUED PURSUANT TO THIS APPLICATION. THIS FORM MUST BE ACCOMPANIED BY OTHER APPLICABLE FORMS AND INFORMATION.

(C) PROVIDE A DESIGNATION IN ITEM 5 ABOVE WHICH YOU WOULD LIKE THE ILLINOIS EPA TO USE FOR IDENTIFICATION OF YOUR EQUIPMENT. YOUR DESIGNATION WILL BE REFERENCED IN CORRESPONDENCE FROM THIS AGENCY RELATIVE TO THIS APPLICATION. YOUR DESIGNATION MUST NOT EXCEED TEN (10) CHARACTERS. (*OPTIONAL*)

(D) THIS APPLICATION MUST BE SIGNED IN ACCORDANCE WITH 35 ILL. ADM. CODE 201.154 OR 201.159 WHICH STATES: "ALL APPLICATIONS AND SUPPLEMENTS THERETO SHALL BE SIGNED BY THE OWNER AND OPERATOR OF THE EMISSION SOURCE OR AIR POLLUTION CONTROL EQUIPMENT, OR THEIR AUTHORIZED AGENT, AND SHALL BE ACCOMPANIED BY EVIDENCE OF AUTHORITY TO SIGN THE APPLICATION."

IF THE OWNER OR OPERATOR IS A CORPORATION, SUCH CORPORATION MUST HAVE ON FILE WITH THE ILLINOIS EPA A CERTIFIED COPY OF A RESOLUTION OF THE CORPORATION'S BOARD OF DIRECTORS AUTHORIZING THE PERSONS SIGNING THIS APPLICATION TO CAUSE OR ALLOW THE CONSTRUCTION OR OPERATION OF THE EQUIPMENT TO BE COVERED BY THE PERMIT.

BILLING INFORMATION		10. CONTACT PERSON FOR APPLICATION: MR. WAYNE WILLIAMS / MR. ANTHONY PERCHA (VISION ENVIRONMENTAL, INC.)	
9a. COMPANY NAME: WEDRON SILICA COMPANY		11. CONTACT PERSON'S TELEPHONE NUMBER: 800-435-7856 ext. 8610 / 800-257-7094 (VEI)	
9b. STREET ADDRESS: 3450 E. 2056th ROAD		12. CONTACT PERSON'S FACSIMILE NUMBER: 815-433-9393 / (248) 926-5586 (VEI)	
9c. CITY: WEDRON		13. FEDERAL EMPLOYER IDENTIFICATION NUMBER (FEIN): 34-1440302	
9d. STATE: IL	9f. BILLING CONTACT PERSON: MR. WAYNE WILLIAMS	14. PRIMARY STANDARD INDUSTRIAL CLASSIFICATION (SIC) CATEGORY: INDUSTRIAL SAND	
9e. ZIP CODE: 60557	9g. CONTACT TELEPHONE NO.: 800-435-7856 ext. 8610	15. PRIMARY SIC NUMBER: 1446	16. TAXPAYER IDENTIFICATION NUMBER (TIN): 1782-4915

17. DOES THIS APPLICATION CONTAIN FORM 197-FEE, "CONSTRUCTION PERMIT APPLICATION FEE DETERMINATION?"
[X] YES [ ] NO

18. DOES THE APPLICATION CONTAIN A PLOT PLAN/MAP?
[X] YES [ ] NO
IF THE PLOT PLAN/MAP HAS PREVIOUSLY BEEN SUBMITTED, SPECIFY:
I. D. NO.: ___ ___ ___ ___ ___ ___ ___ ___ ___ APPLICATION NUMBER ___ ___ ___ ___ ___ ___ ___ ___
IS THE APPROXIMATE SIZE OF APPLICANT'S PREMISES LESS THAN 1 ACRE?
[ ] YES [X] NO IF "NO", SPECIFY 1,000 ACRES

19. DOES THE APPLICATION CONTAIN A PROCESS FLOW DIAGRAM(S) THAT ACCURATELY AND CLEARLY REPRESENTS CURRENT PRACTICE? [X] YES [ ] NO

20. IS THE EMISSION UNIT COVERED BY THIS APPLICATION ALREADY CONSTRUCTED? [ ] YES [X] NO
IF "YES", PROVIDE THE DATE CONSTRUCTION WAS COMPLETED: ___ ___ ___ ___ ___ ___ ___ ___

21. IF THIS APPLICATION INCORPORATES BY REFERENCE A PREVIOUSLY GRANTED PERMIT(S), HAS FORM APC-210, "DATA AND INFORMATION-INCORPORATION BY REFERENCE" BEEN SUBMITTED? [ ] YES [X] NO

APPLICATION FOR OPERATING PERMIT ONLY

22. DOES THE STARTUP OF AN EMISSION UNIT COVERED BY THIS APPLICATION PRODUCE AIR CONTAMINANT EMISSIONS IN EXCESS OF APPLICABLE STANDARDS?
[ ] YES [X] NO
IF "YES", HAS FORM APC-203, "OPERATION DURING STARTUP" BEEN COMPLETED FOR THIS UNIT?
[ ] YES [ ] NO

23. DOES THIS APPLICATION REQUEST PERMISSION TO OPERATE AN EMISSION UNIT DURING MALFUNCTIONS OR BREAKDOWNS?
[ ] YES [X] NO
IF "YES", HAS FORM APC-204, "OPERATION DURING MALFUNCTION AND BREAKDOWN" BEEN COMPLETED FOR THIS UNIT?
[ ] YES [ ] NO

24. IS AN EMISSION UNIT COVERED BY THIS APPLICATION SUBJECT TO A FUTURE COMPLIANCE DATE?
[X] YES [ ] NO
IF "YES", HAS FORM APC-202, "COMPLIANCE PROGRAM & PROJECT COMPLETION SCHEDULE" BEEN COMPLETED FOR THIS UNIT?
[ ] YES [ ] NO

25. DOES THE SOURCE COVERED BY THIS APPLICATION REQUIRE AN EPISODE ACTION PLAN (REFER TO GUIDELINES FOR EPISODE ACTION PLANS)?
[X] YES [X] NO

26. LIST AND IDENTIFY ALL FORMS, EXHIBITS, AND OTHER INFORMATION SUBMITTED AS PART OF THIS APPLICATION. INCLUDE THE PAGE NUMBERS OF EACH ITEM (ATTACH ADDITIONAL SHEETS IF NECESSARY):

197-FEE	
APC 202	
APC 220	
APC 260	
TECHNICAL SUPPORT DOCUMENT	

TOTAL NUMBER OF PAGES ____

FEE DETERMINATION FOR CONSTRUCTION PERMIT APPLICATION

FOR AGENCY USE ONLY	
ID NUMBER:	
PERMIT #:	
COMPLETE ☐ INCOMPLETE ☐	DATE COMPLETE:
CHECK #:	ACCOUNT NAME:

THIS FORM IS TO BE USED BY ALL SOURCES TO SUPPLY FEE INFORMATION THAT MUST ACCOMPANY ALL CONSTRUCTION PERMIT APPLICATIONS. THIS APPLICATION MUST INCLUDE PAYMENT IN FULL TO BE DEEMED COMPLETE. MAKE CHECK OR MONEY ORDER PAYABLE TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY. SEND TO THE ADDRESS ABOVE. DO NOT SEND CASH. REFER TO INSTRUCTIONS (197-INST) FOR ASSISTANCE.

SOURCE INFORMATION

1) SOURCE NAME: WEDRON SILICA COMPANY

2) PROJECT NAME:	3) SOURCE ID NO. (IF APPLICABLE):
WEDRON II	099804AAB

FEE DETERMINATION

4) FILL IN THE FOLLOWING THREE BOXES AS DETERMINED IN SECTIONS 1 THROUGH 4 BELOW:

$ 0	+	$ 1,000	=	$ 1,000
SECTION 1 SUBTOTAL		SECTION 2, 3 OR 4 SUBTOTAL		GRAND TOTAL

SECTION 1: STATUS OF SOURCE / PURPOSE OF SUBMITTAL

5) YOUR APPLICATION WILL FALL UNDER ONLY ONE OF THE FOLLOWING SIX CATEGORIES DESCRIBED BELOW. CHECK THE BOX THAT APPLIES, ENTER THE CORRESPONDING FEE IN THE BOX TO THE RIGHT AND COPY THIS FEE INTO THE SECTION 1 SUBTOTAL BOX ABOVE. PROCEED TO APPLICABLE SECTIONS.

FOR PURPOSES OF THIS FORM:

- ***MAJOR SOURCE*** IS A SOURCE THAT IS REQUIRED TO OBTAIN A CAAPP PERMIT.
- ***SYNTHETIC MINOR* SOURCE** IS A SOURCE THAT HAS TAKEN LIMITS ON POTENTIAL TO EMIT IN A PERMIT TO AVOID CAAPP PERMIT REQUIREMENTS (E.G., FESOP).
- ***NON-MAJOR* SOURCE** IS A SOURCE THAT IS NOT A MAJOR OR SYNTHETIC MINOR SOURCE.

☒	EXISTING SOURCE WITHOUT STATUS CHANGE OR WITH STATUS CHANGE FROM SYNTHETIC MINOR TO MAJOR SOURCE OR VICE VERSA. ENTER $0 AND PROCEED TO SECTION 2.	$ 0 SECTION 1 SUBTOTAL
☐	EXISTING NON-MAJOR SOURCE THAT WILL BECOME SYNTHETIC MINOR OR MAJOR SOURCE. ENTER $5,000 AND PROCEED TO SECTION 4.	
☐	EXISTING MAJOR OR SYNTHETIC MINOR SOURCE THAT WILL BECOME NON-MAJOR SOURCE. ENTER $4,000 AND PROCEED TO SECTION 3.	
☐	NEW MAJOR OR SYNTHETIC MINOR SOURCE. ENTER $5,000 AND PROCEED TO SECTION 4.	
☐	NEW NON-MAJOR SOURCE. ENTER $500 AND PROCEED TO SECTION 3.	
☐	AGENCY ERROR. IF THIS IS A TIMELY REQUEST TO CORRECT AN ISSUED PERMIT THAT INVOLVES ONLY AN AGENCY ERROR AND IF THE REQUEST IS RECEIVED WITHIN THE DEADLINE FOR A PERMIT APPEAL TO THE POLLUTION CONTROL BOARD, THEN ENTER $0. SKIP SECTIONS 2, 3 AND 4. PROCEED DIRECTLY TO SECTION 5.	

SECTION 2: SPECIAL CASE FILING FEE

6) FILING FEE. IF THE APPLICATION ONLY ADDRESSES ONE OR MORE OF THE FOLLOWING, CHECK THE APPROPRIATE BOXES, ENTER $500 IN THE SECOND BOX UNDER FEE DETERMINATION ABOVE, SKIP SECTIONS 3 AND 4 AND PROCEED DIRECTLY TO SECTION 5. OTHERWISE, PROCEED TO SECTION 3 OR 4, AS APPROPRIATE.

- ☐ ADDITION OR REPLACEMENT OF CONTROL DEVICES ON PERMITTED UNITS
- ☐ PILOT PROJECTS/TRIAL BURNS BY A PERMITTED UNIT
- ☐ APPLICATIONS ONLY INVOLVING INSIGNIFICANT ACTIVITIES UNDER 35 IAC 201.210 (MAJOR SOURCES ONLY)
- ☐ LAND REMEDIATION PROJECTS
- ☐ REVISIONS RELATED TO METHODOLOGY OR TIMING FOR EMISSION TESTING
- ☐ MINOR ADMINISTRATIVE-TYPE CHANGE TO A PERMIT

THIS AGENCY IS AUTHORIZED TO REQUIRE AND YOU MUST DISCLOSE THIS INFORMATION UNDER 415 ILCS 5/39. FAILURE TO DO SO COULD RESULT IN THE APPLICATION BEING DENIED AND PENALTIES UNDER 415 ILCS 5 ET SEQ. IT IS NOT NECESSARY TO USE THIS FORM IN PROVIDING THIS INFORMATION. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

SECTION 3: FEES FOR CURRENT OR PROJECTED NON-MAJOR SOURCES	
7) IF THIS APPLICATION CONSISTS OF A SINGLE NEW EMISSION UNIT OR NO MORE THAN TWO MODIFIED EMISSION UNITS, ENTER $500.	7)
8) IF THIS APPLICATION CONSISTS OF MORE THAN ONE NEW EMISSION UNIT OR MORE THAN TWO MODIFIED UNITS, ENTER $1,000.	8) $1,000
9) IF THIS APPLICATION CONSISTS OF A NEW SOURCE OR EMISSION UNIT SUBJECT TO SECTION 39.2 OF THE ACT (I.E., LOCAL SITING REVIEW); A COMMERCIAL INCINERATOR OR A MUNICIPAL WASTE, HAZARDOUS WASTE, OR WASTE TIRE INCINERATOR; A COMMERCIAL POWER GENERATOR; OR AN EMISSION UNIT DESIGNATED AS A COMPLEX SOURCE BY AGENCY RULEMAKING, ENTER $15,000.	9)
10) IF A PUBLIC HEARING IS HELD (SEE INSTRUCTIONS), ENTER $10,000.	10)
11) SECTION 3 SUBTOTAL (ADD LINES 7 THROUGH 10) TO BE ENTERED ON PAGE 1.	11) $1,000

SECTION 4: FEES FOR CURRENT OR PROJECTED MAJOR OR SYNTHETIC MINOR SOURCES			
Application Contains Modified Emission Units Only	12) FOR THE FIRST MODIFIED EMISSION UNIT, ENTER $2,000.	12)	
	13) NUMBER OF ADDITIONAL MODIFIED EMISSION UNITS = _____ X $1,000.	13)	
	14) LINE 12 PLUS LINE 13, OR $5,000, WHICHEVER IS LESS.		14)
Application Contains New And/Or Modified Emission Units	15) FOR THE FIRST NEW EMISSION UNIT, ENTER $4,000.	15)	
	16) NUMBER OF ADDITIONAL NEW AND/OR MODIFIED EMISSION UNITS = _____ X $1,000.	16)	
	17) LINE 15 PLUS LINE 16, OR $10,000, WHICHEVER IS LESS.		17)
Application Contains Netting Exercise	18) NUMBER OF INDIVIDUAL POLLUTANTS THAT RELY ON A NETTING EXERCISE OR CONTEMPORANEOUS EMISSIONS DECREASE TO AVOID APPLICATION OF PSD OR NONATTAINMENT NSR = _____ X $3,000.		18)
Additional Supplemental Fees	19) IF THE NEW SOURCE OR EMISSION UNIT IS SUBJECT TO SECTION 39.2 OF THE ACT (I.E., SITING); A COMMERCIAL INCINERATOR OR OTHER MUNICIPAL WASTE, HAZARDOUS WASTE, OR WASTE TIRE INCINERATOR; A COMMERCIAL POWER GENERATOR; OR ONE OR MORE OTHER EMISSION UNITS DESIGNATED AS A COMPLEX SOURCE BY AGENCY RULEMAKING, ENTER $25,000.		19)
	20) IF THE SOURCE IS A NEW MAJOR SOURCE SUBJECT TO PSD, ENTER $12,000.		20)
	21) IF THE PROJECT IS A MAJOR MODIFICATION SUBJECT TO PSD, ENTER $6,000.		21)
	22) IF THIS IS A NEW MAJOR SOURCE SUBJECT TO NONATTAINMENT (NAA) NSR, ENTER $20,000.		22)
	23) IF THIS IS A MAJOR MODIFICATION SUBJECT TO NAA NSR, ENTER $12,000.		23)
	24) IF APPLICATION INVOLVES A DETERMINATION OF CLEAN UNIT STATUS AND THEREFORE IS NOT SUBJECT TO BACT OR LAER, ENTER $5,000 PER UNIT FOR WHICH A DETERMINATION IS REQUESTED OR OTHERWISE REQUIRED. _____ X $5,000.		24)
	25) IF APPLICATION INVOLVES A DETERMINATION OF MACT FOR A POLLUTANT AND THE PROJECT IS NOT SUBJECT TO BACT OR LAER FOR THE RELATED POLLUTANT UNDER PSD OR NSR (E.G., VOM FOR ORGANIC HAP), ENTER $5,000 PER UNIT FOR WHICH A DETERMINATION IS REQUESTED OR OTHERWISE REQUIRED. _____ X $5,000.		25)
	26) IF A PUBLIC HEARING IS HELD (SEE INSTRUCTIONS), ENTER $10,000.		26)
27) SECTION 4 SUBTOTAL (ADD LINES 14 AND LINES 17 THROUGH 26) TO BE ENTERED ON PAGE 1.			27)

SECTION 5: CERTIFICATION

NOTE: APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE DEEMED INCOMPLETE.

28) I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE INFORMATION CONTAINED IN THIS FEE APPLICATION FORM IS TRUE, ACCURATE AND COMPLETE.

BY: _____ PLANT MANAGER

SIGNATURE — TITLE OF SIGNATORY

MR. WAYNE WILLIAMS _____ / _____ / _____

TYPED OR PRINTED NAME OF SIGNATORY — DATE

APPLICATION PAGE _____

Printed on Recycled Paper
197-FEE

State of Illinois
Environmental Protection Agency
Division of Air Pollution Control
1021 North Grand Avenue East
Springfield, IL 62794-9276

DCEO

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

COMPLIANCE PROGRAM AND
PROJECT COMPLETION SCHEDULE

NAME OF EQUIPMENT TO BE CONSTRUCTED OR MODIFIED: SAND PROCESSING (A)

FOR AGENCY USE ONLY

I. D. NO.

PERMIT NO.

DATE

1a. NAME OF OWNER: FAIRMOUNT MINERALS, LTD.		2a. NAME OF OPERATOR: WEDRON SILICA COMPANY	
1b. STREET ADDRESS OF OWNER: 11830 RAVENNA ROAD		2b. STREET ADDRESS OF OPERATOR: 3450 E. 2056th ROAD	
1c. CITY OF OWNER: CHARDON		2c. CITY OF OPERATOR: WEDRON	
1d. STATE OF OWNER: OH	1e. ZIP CODE: 44024	2d. STATE OF OPERATOR: IL	2e. ZIP CODE: 60557

3a. NAME OF CORPORATE DIVISION OR PLANT: WEDRON SILICA COMPANY		3b. STREET ADDRESS OF EMISSION SOURCE: 3450 E. 2056th ROAD		
3c. CITY OF EMISSION SOURCE: WEDRON	3d. LOCATED WITHIN CITY LIMITS YES NO	3e. TOWNSHIP: DAYTON	3f. COUNTY: LASALLE	3g. ZIP CODE: 60557

4. ALL CORRESPONDENCE TO: (NAME OF INDIVIDUAL) MR. WAYNE WILLIAMS	5. TELEPHONE NUMBER FOR AGENCY TO CALL: 800-435-7856 ext. 8610
6. ADDRESS FOR CORRESPONDENCE: ☐ OWNER ☐ OPERATOR ☒ EMISSION SOURCE	

7. THE UNDERSIGNED HEREBY CERTIFIES THAT THE STATEMENTS CONTAINED HEREIN ARE CORRECT AND CURRENT. BY AFFIXING HIS SIGNATURE HERETO HE FURTHER CERTIFIES THAT HE IS AUTHORIZED TO EXECUTE THIS DOCUMENT.

AUTHORIZED SIGNATURE(S): (B)

BY _____ SIGNATURE _____ DATE	BY _____ SIGNATURE _____ DATE
MR. WAYNE WILLIAMS TYPED OR PRINTED NAME OF SIGNER	_____ TYPED OR PRINTED NAME OF SIGNER
PLANT MANAGER TITLE OF SIGNER	_____ TITLE OF SIGNER

(A) THIS FORM IS TO PROVIDE THE AGENCY WITH GENERAL INFORMATION ABOUT THE COMPLIANCE PROGRAM. CLEARLY IDENTIFY THE GENERIC NAME OF ANY EQUIPMENT TO BE CONSTRUCTED OR MODIFIED PURSUANT TO THIS PLAN.

(B) THIS MUST BE SIGNED IN ACCORDANCE WITH PCB REGS., ILL. ADM. CODE 201.243(b). IF THE PERSON SIGNING THE COMPLIANCE PROGRAM AND PROJECT COMPLETION SCHEDULE IS AUTHORIZED TO DO SO BY A RESOLUTION OF THE BOARD OF DIRECTORS, SUCH AUTHORIZATION WILL USUALLY COMPLY WITH THE BEFORE-MENTIONED RULE.

8. THE APPLICANT MUST SUBMIT A PROCESS FLOW DIAGRAM DEPICTING ALL RELATED EMISSION SOURCES AND ALL RELATED AIR POLLUTION CONTROL EQUIPMENT. THE DIAGRAM SHALL INCLUDE LABELS FOR EACH SOURCE AND EACH ITEM OF POLLUTION CONTROL EQUIPMENT, AND SHALL SET FORTH MAXIMUM FLOW RATES FOR (1) ALL RELATED PROCESSING EQUIPMENT, (2) ALL RELATED AIR POLLUTION CONTROL EQUIPMENT, (3) ALL RELATED EMISSION SOURCES AND (4) ALL RELATED STACKS OR VENTS. IF A PROCESS FLOW DIAGRAM HAS BEEN SUBMITTED WITH A PREVIOUS APPLICATION, THE APPLICANT MUST REFERENCE SUCH APPLICATION:

PERMIT NO.: _____ I.D. NO.: _____

9. THE APPLICANT SHALL SUBMIT A DETAILED DESCRIPTION OF THE EQUIPMENT HE PROPOSES TO CONSTRUCT TO COMPLY WITH THE ENVIRONMENTAL PROTECTION ACT AND APPLICABLE REGULATIONS. THIS DESCRIPTION SHALL INCLUDE THE FOLLOWING; THE TYPE OF PROPOSED AIR POLLUTION CONTROL EQUIPMENT OR PROPOSED AIR POLLUTION CONTROL TECHNIQUE WHICH HAS BEEN CHOSEN TO ACHIEVE COMPLIANCE: THE COST, AVAILABILITY, AND TECHNICAL REASONABLENESS OF THE PROPOSED AIR POLLUTION CONTROL EQUIPMENT OR PROPOSED AIR POLLUTION CONTROL TECHNIQUE, INCLUDING DETAILED COST ANALYSES AND COPIES OF ENGINEERING REPORTS OR STUDIES SUFFICIENT TO PROVE TO THE AGENCY THAT THIS OPERATION WILL BE IN COMPLIANCE WITH THE ACT AND APPLICABLE REGULATIONS. THIS EQUIPMENT SHALL BE CLEARLY LABELED ON THE PROCESS FLOW DIAGRAM.

10. COMPLETE ALL OF COLUMNS A AND B. COMPLETE COLUMN C AS APPLICABLE.

	A EXPECTED DATE ACTIVITY WILL BE COMPLETED	B LATEST DATE ACTIVITY WILL BE COMPLETED*	C ACTUAL DATE ACTIVITY WAS COMPLETED
a. STATE DATE THE APPLICANT WILL ENTER INTO A BINDING AGREEMENT TO MAKE NECESSARY PURCHASES OR MODIFICATIONS.	4/2005	6/2005	
b. STATE DATE THE APPLICANT WILL APPLY FOR A CONSTRUCTION PERMIT FOR THE PROPOSED EQUIPMENT OR MODIFICATION OF EQUIPMENT.	3/2005	3/2005	3/2005
c. STATE DATE THIS ITEM OF EQUIPMENT WILL BE DELIVERED (IF PRESENT EQUIPMENT IS TO BE MODIFIED, STATE DATE SUCH MODIFICATION SHALL BEGIN) TO THE APPLICANT'S FACILITY.	7/2005	8/2005	
d. STATE DATE CONSTRUCTION OR MODIFICATION OF EQUIPMENT WILL BE COMPLETED.	10/2005	12/2005	
e. STATE DATE APPLICANT WILL TEST EQUIPMENT TO DEMONSTRATE COMPLIANCE WITH THE ENVIRONMENTAL PROTECTION ACT AND SUBSTANTIVE REGULATIONS PROMULGATED THEREUNDER.	4/2006	6/2006	
f. STATE DATE EQUIPMENT WILL BE FULLY OPERATIONAL.	10/2005	12/2005	

NOTE: THE TIME BETWEEN THE SUBMISSION OF THIS FORM AND THE INITIAL EVENT LISTED IN ITEM 10 SHALL NOT EXCEED 6 MONTHS. THE TIME BETWEEN ANY TWO CONSECUTIVE EVENTS LISTED IN ITEM 10 SHALL NOT EXCEED 6 MONTHS.

*THE FINAL COMPLIANCE DATE SHALL BE NO LATER THAN THE APPLICABLE DATE SET FORTH IN ILL.ADM.CODE.

11. A PROJECT COMPLETION REPORT, APC-271, MUST BE SUBMITTED TO THE AGENCY FOR EACH INTERIM AND FINAL COMPLIANCE DATE LISTED IN COLUMN B. SUCH PROJECT COMPLETION REPORT MUST BE RECEIVED BY THE AGENCY NO LATER THAN 30 DAYS AFTER THE APPLICABLE INTERIM OR FINAL COMPLIANCE DATE.

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
1021 NORTH GRAND AVENUE, EAST
SPRINGFIELD, ILLINOIS 62702

* DATA AND INFORMATION PROCESS EMISSION SOURCE	

* THIS INFORMATION FORM IS TO BE COMPLETED FOR AN EMISSION SOURCE OTHER THAN A FUEL COMBUSTION EMISSION SOURCE OR AN INCINERATOR. A FUEL COMBUSTION EMISSION SOURCE IS A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED PRIMARILY FOR PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN INCINERATOR IS AN APPARATUS IN WHICH REFUSE IS BURNED.

1. NAME OF PLANT OWNER: FAIRMOUNT MINERALS, LTD.	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER): WEDRON SILICA COMPANY
3. STREET ADDRESS OF EMISSION SOURCE: 3450 E. 2056th ROAD	4. CITY OF EMISSION SOURCE: WEDRON

GENERAL INFORMATION		
5. NAME OF PROCESS: WEDRON II	6. NAME OF EMISSION SOURCE EQUIPMENT: SAND PROCESSING (SEE TECH. SUPPORT DOC. FOR EACH INDIVIDUAL UNIT)	
7. EMISSION SOURCE EQUIPMENT MANUFACTURER: TBD	8. MODEL NUMBER: TBD	9. SERIAL NUMBER: TBD
10. FLOW DIAGRAM DESIGNATION(S) OF EMISSION SOURCE: CONVEYOR(S), COOLER, BUCKET ELEVATOR(S), VIBRATING SCREEN/ SCALP SCREENER, SIFTER(S), SILO(S), SILO DROP POINT(S), LOADOUT SPOUT.		
11. IDENTITY(S) OF ANY SIMILAR SOURCE(S) AT THE PLANT OR PREMISES NOT COVERED BY THE FORM (IF THE SOURCE IS COVERED BY ANOTHER APPLICATION, IDENTIFY THE APPLICATION): APPLICATION NO. 73031358		
12. AVERAGE OPERATING TIME OF EMISSION SOURCE: 12 HRS/DAY 5 DAYS/WK 52 WKS/YR	13. MAXIMUM OPERATING TIME OF EMISSION SOURCE: 24 HRS/DAY 7 DAYS/WK 52 WKS/YR	
14. PERCENT OF ANNUAL THROUGHPUT: DEC-FEB 25 % MAR-MAY 25 % JUN-AUG 25 % SEPT-NOV 25 %		

INSTRUCTIONS
1. COMPLETE THE ABOVE IDENTIFICATION AND GENERAL INFORMATION SECTION. 2. COMPLETE THE RAW MATERIAL, PRODUCT, WASTE MATERIAL, AND FUEL USAGE SECTIONS FOR THE PARTICULAR SOURCE EQUIPMENT. COMPOSITIONS OF MATERIALS MUST BE SUFFICIENTLY DETAILED TO ALLOW DETERMINATION OF THE NATURE AND QUANTITY OF POTENTIAL EMISSIONS. IN PARTICULAR, THE COMPOSITION OF PAINTS, INKS, ETC., AND ANY SOLVENTS MUST BE FULLY DETAILED. 3. EMISSION AND EXHAUST POINT INFORMATION MUST BE COMPLETED, UNLESS EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT. 4. OPERATION TIME AND CERTAIN OTHER ITEMS REQUIRE BOTH AVERAGE AND MAXIMUM VALUES 5. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

DEFINITIONS
AVERAGE - THE VALUE THAT SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE, OR THE GENERAL STATE OF PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY: AVERAGE OPERATING TIME - ACTUAL TOTAL HOURS OF OPERATION FOR THE PRECEDING TWELVE MONTH PERIOD. AVERAGE RATE - ACTUAL TOTAL QUANTITY OF "MATERIAL" FOR THE PRECEDING TWELVE MONTH PERIOD, DIVIDED BY THE AVERAGE OPERATING TIME. AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES. MAXIMUM - THE GREATEST VALUE ATTAINABLE OR ATTAINED FOR THE EMISSION SOURCE, OR THE PERIOD OF GREATEST OR UTMOST PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY: MAXIMUM OPERATING TIME - GREATEST EXPECTED TOTAL HOURS OF OPERATIONS FOR ANY TWELVE MONTH PERIOD. MAXIMUM RATE - GREATEST QUANTITY OF "MATERIAL" EXPECTED PER ANY ONE HOUR OF OPERATION. MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

RAW MATERIAL INFORMATION		
NAME OF RAW MATERIAL	AVERAGE RATE PER IDENTICAL SOURCE	MAXIMUM RATE PER IDENTICAL SOURCE
20a. SILICA SAND	b. 534,000 LB/HR	c. 600,000 LB/HR
21a.	b. LB/HR	c. LB/HR
22a.	b. LB/HR	c. LB/HR
23a.	b. LB/HR	c. LB/HR
24a.	b. LB/HR	c. LB/HR

PRODUCT INFORMATION		
NAME OF PRODUCT	AVERAGE RATE PER IDENTICAL SOURCE	MAXIMUM RATE PER IDENTICAL SOURCE
30a. SILICA SAND	b. 534,000 LB/HR	c. 600,000 LB/HR
31a.	b. LB/HR	c. LB/HR
32a.	b. LB/HR	c. LB/HR
33a.	b. LB/HR	c. LB/HR
34a.	b. LB/HR	c. LB/HR

WASTE MATERIAL INFORMATION		
NAME OF WASTE MATERIAL	AVERAGE RATE PER IDENTICAL SOURCE	MAXIMUM RATE PER IDENTICAL SOURCE
40a.	b. LB/HR	c. LB/HR
41a.	b. LB/HR	c. LB/HR
42a.	b. LB/HR	c. LB/HR
43a.	b. LB/HR	c. LB/HR
44a.	b. LB/HR	c. LB/HR

*FUEL USAGE INFORMATION		
FUEL USED	TYPE	HEAT CONTENT
50a. NATURAL GAS ☐	b. ----------	c. 1000 BTU/SCF
OTHER GAS ☐		BTU/SCF
OIL ☐		BTU/GAL
COAL ☐		BTU/LB
OTHER ☐		BTU/LB
d. AVERAGE FIRING RATE PER IDENTICAL SOURCE: BTU/HR	e. MAXIMUM FIRING RATE PER IDENTICAL SOURCE: BTU/HR	

*THIS SECTION IS TO BE COMPLETED FOR ANY FUEL USED DIRECTLY IN THE PROCESS EMISSION SOURCE, E. G. GAS IN A DRYER, OR COAL IN A MELT FURNACE.

*EMISSION INFORMATION

51. NUMBER OF IDENTICAL SOURCES (DESCRIBE AS REQUIRED):

AVERAGE OPERATION			
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	52a. GR/SCF	b. LB/HR	c. SEE TECHNICAL SUPPORT DOCUMENT, TABLES 1 & 2 FOR UNCONTROLLED UNITS.
CARBON MONOXIDE	53a. PPM (VOL)	b. LB/HR	c.
NITROGEN OXIDES	54a. PPM (VOL)	b. LB/HR	c.
ORGANIC MATERIAL	55a. PPM (VOL)	b. LB/HR	c.
SULFUR DIOXIDE	56a. PPM (VOL)	b. LB/HR	c.
**OTHER (SPECIFY)	57a. PPM (VOL)	b. LB/HR	c.

MAXIMUM OPERATION			
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	58a. GR/SCF	b. LB/HR	c. SEE TECHNICAL SUPPORT DOCUMENT, TABLES 1 & 2 FOR UNCONTROLLED UNITS.
CARBON MONOXIDE	59a. PPM (VOL)	b. LB/HR	c.
NITROGEN OXIDES	60a. PPM (VOL)	b. LB/HR	c.
ORGANIC MATERIAL	61a. PPM (VOL)	b. LB/HR	c.
SULFUR DIOXIDE	62a. PPM (VOL)	b. LB/HR	c.
**OTHER (SPECIFY)	63a. PPM (VOL)	b. LB/HR	c.

*ITEMS 52 THROUGH 63 NEED NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.
**"OTHER" CONTAMINANT SHOULD BE USED FOR AN AIR CONTAMINANT NOT SPECIFICALLY NAMED ABOVE. POSSIBLE OTHER CONTAMINANTS ARE ASBESTOS, BERYLLIUM, MERCURY, VINYL CHLORIDE, LEAD, ETC.

***EXHAUST POINT INFORMATION

64. FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT: UNCONTROLLED EMISSION UNITS ARE CONSIDERED FUGITIVE AND DO NOT POSSESS AN EXHAUST POINT.

65. DESCRIPTION OF EXHAUST POINT (LOCATION IN RELATION TO BUILDINGS, DIRECTION, HOODING, ETC.):

66. EXIT HEIGHT ABOVE GRADE:	67. EXIT DIAMETER:
68. GREATEST HEIGHT OF NEARBY BUILDINGS:	69. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY:

AVERAGE OPERATION	MAXIMUM OPERATION
70. EXIT GAS TEMPERATURE: °F	72. EXIT GAS TEMPERATURE: °F
71. GAS FLOW RATE THROUGH EACH EXIT: ACFM	73. GAS FLOW RATE THROUGH EACH EXIT: ACFM

***THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
1021 NORTH GRAND AVENUE, EAST
SPRINGFIELD, ILLINOIS 62702

* DATA AND INFORMATION AIR POLLUTION CONTROL EQUIPMENT	

* THIS INFORMATION FORM IS TO BE COMPLETED FOR AN EMISSION SOURCE OTHER THAN A FUEL COMBUSTION EMISSION SOURCE OR AN INCINERATOR. A FUEL COMBUSTION EMISSION SOURCE IS A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED PRIMARILY FOR PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN INCINERATOR IS AN APPARATUS IN WHICH REFUSE IS BURNED.

1. NAME OF OWNER: FAIRMOUNT MINERALS, LTD.	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER): WEDRON SILICA COMPANY
3. STREET ADDRESS OF CONTROL EQUIPMENT: 3450 E. 2056th ROAD	4. CITY OF CONTROL EQUIPMENT WEDRON
5. NAME OF CONTROL EQUIPMENT OR CONTROL SYSTEM: BAGHOUSE LOCATED IN RAIL LOAD OUT AREA (REPLACING EXISTING VENTURI A33026 SCRUBBER DC-08)	

INSTRUCTIONS

1. COMPLETE THE ABOVE IDENTIFICATION SECTION.
2. COMPLETE THE APPROPRIATE SECTION FOR THE UNIT OF CONTROL EQUIPMENT, OR THE APPROPRIATE SECTIONS FOR THE CONTROL SYSTEM. BE CERTAIN THAT THE ARRANGEMENT OF VARIOUS UNITS IN A CONTROL SYSTEM IS MADE CLEAR IN THE PROCESS FLOW DIAGRAM.
3. COMPLETE PAGE 6 OF THIS FORM, EMISSION INFORMATION AND EXHAUST POINT INFORMATION.
4. EFFICIENCY VALUES SHOULD BE SUPPORTED WITH A DETAILED EXPLANATION OF THE METHOD OF CALCULATION, THE MANNER OF ESTIMATION, OR THE SOURCE OF INFORMATION. REFERENCE TO THIS FORM ANY RELEVANT INFORMATION OR EXPLANATION INCLUDED IN THIS PERMIT APPLICATION.
5. EFFICIENCY VALUES AND CERTAIN OTHER ITEMS OF INFORMATION ARE TO BE GIVEN FOR AVERAGE AND MAXIMUM OPERATION OR THE SOURCE EQUIPMENT. FOR EXAMPLE, "MAXIMUM EFFICIENCY" IS THE EFFICIENCY OF THE CONTROL EQUIPMENT WHEN THE SOURCE IS AT MAXIMUM OPERATION, AND "AVERAGE FLOW RATE" IS THE FLOW RATE INTO HE CONTROL EQUIPMENT WHEN THE SOURCE IS AT AVERAGE OPERATION.
6. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

DEFINITIONS

AVERAGE - THE VALUE THAT SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE, OR THE GENERAL STATE OF PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:
AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.

MAXIMUM - THE GREATEST VALUE ATTAINABLE OR ATTAINED FOR THE EMISSION SOURCE, OR THE PERIOD OF GREATEST OR UTMOST PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:
MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

CONDENSER		
1. FLOW DIAGRAM DESIGNATION(S) OF CONDENSER:		
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:	4. HEAT EXCHANGE AREA: FT^2

AVERAGE OPERATION OF SOURCE		MAXIMUM OPERATION OF SOURCE	
5. COOLANT FLOW RATE PER CONDENSER: WATER _____ GPM AIR _____ SCFM OTHER: TYPE _____, FLOW RATE _____		10. COOLANT FLOW RATE PER CONDENSER: WATER _____ GPM AIR _____ SCFM OTHER: TYPE _____, FLOW RATE _____	
6. GAS FLOW RATE: SCFM		11. GAS FLOW RATE: SCFM	
7. COOLANT TEMPERATURE: INLET____°F OUTLET____°F	8. GAS TEMPERATURE: INLET____°F OUTLET____°F	12. COOLANT TEMPERATURE: INLET____°F OUTLET____°F	13. GAS TEMPERATURE: INLET____°F OUTLET____°F
9. EFFICIENCY OF CONDENSER (SEE INSTRUCTION 4): %		14. EFFICIENCY OF CONDENSER (SEE INSTRUCTION 4): %	

*ELECTRICAL PRECIPITATOR	
1. FLOW DIAGRAM DESIGNATION(S) OF ELECTRICAL PRECIPITATOR:	
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:
4. COLLECTING ELECTRODE AREA PER CONTROL DEVICE: FT^2	

AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
5. GAS FLOW RATE: SCFM	7. GAS FLOW RATE: SCFM
6. EFFICIENCY OF ELECTRICAL PRECIPITATOR(SEE INSTRUCTION 4): %	8. EFFICIENCY OF ELECTRICAL PRECIPITATOR(SEE INSTRUCTION 4): %
SUBMIT THE MANUFACTURER'S SPECIFICATIONS FOR THE ELECTRICAL PRECIPITATOR. REFERENCE THE INFORMATION TO THIS FORM.	

*ELECTRICAL PRECIPITATORS VARY GREATLY IN THEIR DESIGN AND IN THEIR COMPLEXITY. THE ITEMS IN THIS SECTION PROVIDE A MINIMUM AMOUNT OF INFORMATION. THE APPLICANT MUST, HOWEVER, SUBMIT WITH THIS APPLICATION THE MANUFACTURER'S SPECIFICATIONS, INCLUDING ANY DRAWINGS, TECHNICAL DOCUMENTS, ETC. IF THE INFORMATION PROVIDED BY THE MANUFACTURER'S SPECIFICATIONS IS INSUFFICIENT FOR FULL AND ACCURATE ANALYSIS, THE AGENCY WILL REQUEST SPECIFIC ADDITIONAL INFORMATION.

FILTER UNIT	
1. FLOW DIAGRAM DESIGNATION(S) OF FILTER UNIT: NEW 20,000 CFM DUST COLLECTOR TO REPLACE EXISTING SCRUBBER	
2. MANUFACTURER: TBD	3. MODEL NAME AND NUMBER: TBD
4. FILTERING MATERIAL: CLOTH FABRIC	5. FILTERING AREA: 4.84/1 ACFM/FT2 FT^2
6. CLEANING METHOD: ☐ SHAKER ☐ REVERSE AIR ☐ PULSE AIR ☐ PULSE JET ☒ OTHER: SPECIFY TBD	
7. GAS COOLING METHOD: ☐ DUCT WORK: LENGTH _____ FT., DIAM _____ IN. ☐ BLEED-IN AIR ☐ WATER SPRAY ☒ OTHER: SPECIFY TBD	

AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
8. GAS FLOW RATE (FROM SOURCE): 18,000 SCFM	12. GAS FLOW RATE (FROM SOURCE): 18,000 SCFM
9. GAS COOLING FLOW RATE: BLEED-IN AIR _____ SCFM, WATER SPRAY _____ GPM	13. GAS COOLING FLOW RATE: BLEED-IN AIR _____ SCFM, WATER SPRAY _____ GPM
10. INLET GAS CONDITION: TEMPERATURE AMBIENT °F DEWPOINT _____ °F	14. INLET GAS CONDITION: TEMPERATURE AMBIENT °F DEWPOINT _____ °F
11. EFFICIENCY OF FILTER UNIT (SEE INSTRUCTION 4): 99.0 %	15. EFFICIENCY OF FILTER UNIT (SEE INSTRUCTION 4): 99.0 %

EMISSION INFORMATION			
1. NUMBER OF IDENTICAL CONTROL UNITS OR CONTROL SYSTEMS (DESCRIBE AS REQUIRED): NONE			
AVERAGE OPERATION			
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL CONTROL UNITS OR CONTROL SYSTEM		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	2a. GR/SCF	b. LB/HR	c. SEE TECHNICAL SUPPORT DOCUMENT, TABLES 1 & 2.
CARBON MONOXIDE	3a. PPM (VOL)	b. LB/HR	c.
NITROGEN OXIDES	4a. PPM (VOL)	b. LB/HR	c.
ORGANIC MATERIAL	5a. PPM (VOL)	b. LB/HR	c.
SULFUR DIOXIDE	6a. PPM (VOL)	b. LB/HR	c.
**OTHER (SPECIFY)	7a. PPM (VOL)	b. LB/HR	c.
MAXIMUM OPERATION			
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL CONTROL UNITS OR CONTROL SYSTEM		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	8a. GR/SCF	b. LB/HR	c. SEE TECHNICAL SUPPORT DOCUMENT, TABLES 1 & 2.
CARBON MONOXIDE	9a. PPM (VOL)	b. LB/HR	c.
NITROGEN OXIDES	10a. PPM (VOL)	b. LB/HR	c.
ORGANIC MATERIAL	11a. PPM (VOL)	b. LB/HR	c.
SULFUR DIOXIDE	12a. PPM (VOL)	b. LB/HR	c.
**OTHER (SPECIFY)	13a. PPM (VOL)	b. LB/HR	c.

**"OTHER" CONTAMINANT SHOULD BE USED FOR AN AIR CONTAMINANT NOT SPECIFICALLY NAMED ABOVE. POSSIBLE OTHER CONTAMINANTS ARE ASBESTOS, BERYLLIUM, MERCURY, VINYL CHLORIDE, LEAD, ETC.

EXHAUST POINT INFORMATION	
1. FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT: TBD	
2. DESCRIPTION OF EXHAUST POINT (LOCATION IN RELATION TO BUILDINGS, DIRECTION, HOODING, ETC.):	
3. EXIT HEIGHT ABOVE GRADE:	4. EXIT DIAMETER:
5. GREATEST HEIGHT OF NEARBY BUILDINGS:	6. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY:
AVERAGE OPERATION	MAXIMUM OPERATION
7. EXIT GAS TEMPERATURE: °F	9. EXIT GAS TEMPERATURE: °F
8. GAS FLOW RATE THROUGH EACH EXIT: ACFM	10. GAS FLOW RATE THROUGH EACH EXIT: ACFM

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
1021 NORTH GRAND AVENUE, EAST
SPRINGFIELD, ILLINOIS 62702

* DATA AND INFORMATION AIR POLLUTION CONTROL EQUIPMENT	

* THIS INFORMATION FORM IS TO BE COMPLETED FOR AN EMISSION SOURCE OTHER THAN A FUEL COMBUSTION EMISSION SOURCE OR AN INCINERATOR. A FUEL COMBUSTION EMISSION SOURCE IS A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED PRIMARILY FOR PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN INCINERATOR IS AN APPARATUS IN WHICH REFUSE IS BURNED.

1. NAME OF OWNER: FAIRMOUNT MINERALS, LTD.	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER): WEDRON SILICA COMPANY
3. STREET ADDRESS OF CONTROL EQUIPMENT: 3450 E. 2056th ROAD	4. CITY OF CONTROL EQUIPMENT WEDRON
5. NAME OF CONTROL EQUIPMENT OR CONTROL SYSTEM: BAGHOUSE LOCATED IN EXISTING SCREEN HOUSE (REPLACING EXISTING BACT ME042 SCRUBBER DC-06)	

INSTRUCTIONS

1. COMPLETE THE ABOVE IDENTIFICATION SECTION.
2. COMPLETE THE APPROPRIATE SECTION FOR THE UNIT OF CONTROL EQUIPMENT, OR THE APPROPRIATE SECTIONS FOR THE CONTROL SYSTEM. BE CERTAIN THAT THE ARRANGEMENT OF VARIOUS UNITS IN A CONTROL SYSTEM IS MADE CLEAR IN THE PROCESS FLOW DIAGRAM.
3. COMPLETE PAGE 6 OF THIS FORM, EMISSION INFORMATION AND EXHAUST POINT INFORMATION.
4. EFFICIENCY VALUES SHOULD BE SUPPORTED WITH A DETAILED EXPLANATION OF THE METHOD OF CALCULATION, THE MANNER OF ESTIMATION, OR THE SOURCE OF INFORMATION. REFERENCE TO THIS FORM ANY RELEVANT INFORMATION OR EXPLANATION INCLUDED IN THIS PERMIT APPLICATION.
5. EFFICIENCY VALUES AND CERTAIN OTHER ITEMS OF INFORMATION ARE TO BE GIVEN FOR AVERAGE AND MAXIMUM OPERATION OR THE SOURCE EQUIPMENT. FOR EXAMPLE, "MAXIMUM EFFICIENCY" IS THE EFFICIENCY OF THE CONTROL EQUIPMENT WHEN THE SOURCE IS AT MAXIMUM OPERATION, AND "AVERAGE FLOW RATE" IS THE FLOW RATE INTO HE CONTROL EQUIPMENT WHEN THE SOURCE IS AT AVERAGE OPERATION.
6. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

DEFINITIONS

AVERAGE - THE VALUE THAT SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE, OR THE GENERAL STATE OF PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:
AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.

MAXIMUM - THE GREATEST VALUE ATTAINABLE OR ATTAINED FOR THE EMISSION SOURCE, OR THE PERIOD OF GREATEST OR UTMOST PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:
MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

CONDENSER		
1. FLOW DIAGRAM DESIGNATION(S) OF CONDENSER:		
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:	4. HEAT EXCHANGE AREA: FT^2

AVERAGE OPERATION OF SOURCE		MAXIMUM OPERATION OF SOURCE	
5. COOLANT FLOW RATE PER CONDENSER: WATER _____ GPM AIR _____ SCFM OTHER: TYPE _____, FLOW RATE _____		10. COOLANT FLOW RATE PER CONDENSER: WATER _____ GPM AIR _____ SCFM OTHER: TYPE _____, FLOW RATE _____	
6. GAS FLOW RATE: SCFM		11. GAS FLOW RATE: SCFM	
7. COOLANT TEMPERATURE: INLET____°F OUTLET____°F	8. GAS TEMPERATURE: INLET____°F OUTLET____°F	12. COOLANT TEMPERATURE: INLET____°F OUTLET____°F	13. GAS TEMPERATURE: INLET____°F OUTLET____°F
9. EFFICIENCY OF CONDENSER (SEE INSTRUCTION 4): %		14. EFFICIENCY OF CONDENSER (SEE INSTRUCTION 4): %	

*ELECTRICAL PRECIPITATOR	
1. FLOW DIAGRAM DESIGNATION(S) OF ELECTRICAL PRECIPITATOR:	
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:
4. COLLECTING ELECTRODE AREA PER CONTROL DEVICE: FT^2	

AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
5. GAS FLOW RATE: SCFM	7. GAS FLOW RATE: SCFM
6. EFFICIENCY OF ELECTRICAL PRECIPITATOR(SEE INSTRUCTION 4): %	8. EFFICIENCY OF ELECTRICAL PRECIPITATOR(SEE INSTRUCTION 4): %
SUBMIT THE MANUFACTURER'S SPECIFICATIONS FOR THE ELECTRICAL PRECIPITATOR. REFERENCE THE INFORMATION TO THIS FORM.	

*ELECTRICAL PRECIPITATORS VARY GREATLY IN THEIR DESIGN AND IN THEIR COMPLEXITY. THE ITEMS IN THIS SECTION PROVIDE A MINIMUM AMOUNT OF INFORMATION. THE APPLICANT MUST, HOWEVER, SUBMIT WITH THIS APPLICATION THE MANUFACTURER'S SPECIFICATIONS, INCLUDING ANY DRAWINGS, TECHNICAL DOCUMENTS, ETC. IF THE INFORMATION PROVIDED BY THE MANUFACTURER'S SPECIFICATIONS IS INSUFFICIENT FOR FULL AND ACCURATE ANALYSIS, THE AGENCY WILL REQUEST SPECIFIC ADDITIONAL INFORMATION.

FILTER UNIT	
1. FLOW DIAGRAM DESIGNATION(S) OF FILTER UNIT: NEW 42,000 CFM DUST COLLECTOR TO REPLACE EXISTING SCRUBBER	
2. MANUFACTURER: TBD	3. MODEL NAME AND NUMBER: TBD
4. FILTERING MATERIAL: CLOTH FABRIC	5. FILTERING AREA: 5.01/1 ACFM/FT2 FT^2
6. CLEANING METHOD: ☐ SHAKER ☐ REVERSE AIR ☐ PULSE AIR ☐ PULSE JET ☒ OTHER: SPECIFY TBD	
7. GAS COOLING METHOD: ☐ DUCT WORK: LENGTH _____ FT., DIAM _____ IN. ☐ BLEED-IN AIR ☐ WATER SPRAY ☒ OTHER: SPECIFY TBD	

AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
8. GAS FLOW RATE (FROM SOURCE): 42,000 SCFM	12. GAS FLOW RATE (FROM SOURCE): 42,000 SCFM
9. GAS COOLING FLOW RATE: BLEED-IN AIR _____ SCFM, WATER SPRAY _____ GPM	13. GAS COOLING FLOW RATE: BLEED-IN AIR _____ SCFM, WATER SPRAY _____ GPM
10. INLET GAS CONDITION: TEMPERATURE AMBIENT °F DEWPOINT _____ °F	14. INLET GAS CONDITION: TEMPERATURE AMBIENT °F DEWPOINT _____ °F
11. EFFICIENCY OF FILTER UNIT (SEE INSTRUCTION 4): 99.0 %	15. EFFICIENCY OF FILTER UNIT (SEE INSTRUCTION 4): 99.0 %

EMISSION INFORMATION			
1. NUMBER OF IDENTICAL CONTROL UNITS OR CONTROL SYSTEMS (DESCRIBE AS REQUIRED): NONE			
AVERAGE OPERATION			
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL CONTROL UNITS OR CONTROL SYSTEM		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	2a. GR/SCF	b. LB/HR	c. SEE TECHNICAL SUPPORT DOCUMENT, TABLES 1 & 2.
CARBON MONOXIDE	3a. PPM (VOL)	b. LB/HR	c.
NITROGEN OXIDES	4a. PPM (VOL)	b. LB/HR	c.
ORGANIC MATERIAL	5a. PPM (VOL)	b. LB/HR	c.
SULFUR DIOXIDE	6a. PPM (VOL)	b. LB/HR	c.
**OTHER (SPECIFY)	7a. PPM (VOL)	b. LB/HR	c.
MAXIMUM OPERATION			
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL CONTROL UNITS OR CONTROL SYSTEM		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	8a. GR/SCF	b. LB/HR	c. SEE TECHNICAL SUPPORT DOCUMENT, TABLES 1 & 2.
CARBON MONOXIDE	9a. PPM (VOL)	b. LB/HR	c.
NITROGEN OXIDES	10a. PPM (VOL)	b. LB/HR	c.
ORGANIC MATERIAL	11a. PPM (VOL)	b. LB/HR	c.
SULFUR DIOXIDE	12a. PPM (VOL)	b. LB/HR	c.
**OTHER (SPECIFY)	13a. PPM (VOL)	b. LB/HR	c.

**"OTHER" CONTAMINANT SHOULD BE USED FOR AN AIR CONTAMINANT NOT SPECIFICALLY NAMED ABOVE. POSSIBLE OTHER CONTAMINANTS ARE ASBESTOS, BERYLLIUM, MERCURY, VINYL CHLORIDE, LEAD, ETC.

EXHAUST POINT INFORMATION	
1. FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT: TBD	
2. DESCRIPTION OF EXHAUST POINT (LOCATION IN RELATION TO BUILDINGS, DIRECTION, HOODING, ETC.):	
3. EXIT HEIGHT ABOVE GRADE:	4. EXIT DIAMETER:
5. GREATEST HEIGHT OF NEARBY BUILDINGS:	6. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY:
AVERAGE OPERATION	**MAXIMUM OPERATION**
7. EXIT GAS TEMPERATURE: °F	9. EXIT GAS TEMPERATURE: °F
8. GAS FLOW RATE THROUGH EACH EXIT: ACFM	10. GAS FLOW RATE THROUGH EACH EXIT: ACFM

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
1021 NORTH GRAND AVENUE, EAST
SPRINGFIELD, ILLINOIS 62702

* DATA AND INFORMATION AIR POLLUTION CONTROL EQUIPMENT	

* THIS INFORMATION FORM IS TO BE COMPLETED FOR AN EMISSION SOURCE OTHER THAN A FUEL COMBUSTION EMISSION SOURCE OR AN INCINERATOR. A FUEL COMBUSTION EMISSION SOURCE IS A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED PRIMARILY FOR PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN INCINERATOR IS AN APPARATUS IN WHICH REFUSE IS BURNED.

1. NAME OF OWNER: FAIRMOUNT MINERALS, LTD.	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER): WEDRON SILICA COMPANY
3. STREET ADDRESS OF CONTROL EQUIPMENT: 3450 E. 2056th ROAD	4. CITY OF CONTROL EQUIPMENT WEDRON
5. NAME OF CONTROL EQUIPMENT OR CONTROL SYSTEM: BAGHOUSE LOCATED IN TRUCK LOADOUT AREA (REPLACING EXISTING BACT ME018 SCRUBBER DC-07)	

INSTRUCTIONS

1. COMPLETE THE ABOVE IDENTIFICATION SECTION.
2. COMPLETE THE APPROPRIATE SECTION FOR THE UNIT OF CONTROL EQUIPMENT, OR THE APPROPRIATE SECTIONS FOR THE CONTROL SYSTEM. BE CERTAIN THAT THE ARRANGEMENT OF VARIOUS UNITS IN A CONTROL SYSTEM IS MADE CLEAR IN THE PROCESS FLOW DIAGRAM.
3. COMPLETE PAGE 6 OF THIS FORM, EMISSION INFORMATION AND EXHAUST POINT INFORMATION.
4. EFFICIENCY VALUES SHOULD BE SUPPORTED WITH A DETAILED EXPLANATION OF THE METHOD OF CALCULATION, THE MANNER OF ESTIMATION, OR THE SOURCE OF INFORMATION. REFERENCE TO THIS FORM ANY RELEVANT INFORMATION OR EXPLANATION INCLUDED IN THIS PERMIT APPLICATION.
5. EFFICIENCY VALUES AND CERTAIN OTHER ITEMS OF INFORMATION ARE TO BE GIVEN FOR AVERAGE AND MAXIMUM OPERATION OR THE SOURCE EQUIPMENT. FOR EXAMPLE, "MAXIMUM EFFICIENCY" IS THE EFFICIENCY OF THE CONTROL EQUIPMENT WHEN THE SOURCE IS AT MAXIMUM OPERATION, AND "AVERAGE FLOW RATE" IS THE FLOW RATE INTO HE CONTROL EQUIPMENT WHEN THE SOURCE IS AT AVERAGE OPERATION.
6. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

DEFINITIONS

AVERAGE - THE VALUE THAT SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE, OR THE GENERAL STATE OF PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:
AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.

MAXIMUM - THE GREATEST VALUE ATTAINABLE OR ATTAINED FOR THE EMISSION SOURCE, OR THE PERIOD OF GREATEST OR UTMOST PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:
MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

CONDENSER		
1. FLOW DIAGRAM DESIGNATION(S) OF CONDENSER:		
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:	4. HEAT EXCHANGE AREA: FT^2

AVERAGE OPERATION OF SOURCE		MAXIMUM OPERATION OF SOURCE	
5. COOLANT FLOW RATE PER CONDENSER: WATER _____ GPM AIR _____ SCFM OTHER: TYPE _____, FLOW RATE _____		10. COOLANT FLOW RATE PER CONDENSER: WATER _____ GPM AIR _____ SCFM OTHER: TYPE _____, FLOW RATE _____	
6. GAS FLOW RATE: SCFM		11. GAS FLOW RATE: SCFM	
7. COOLANT TEMPERATURE: INLET____°F OUTLET____°F	8. GAS TEMPERATURE: INLET____°F OUTLET____°F	12. COOLANT TEMPERATURE: INLET____°F OUTLET____°F	13. GAS TEMPERATURE: INLET____°F OUTLET____°F
9. EFFICIENCY OF CONDENSER (SEE INSTRUCTION 4): %		14. EFFICIENCY OF CONDENSER (SEE INSTRUCTION 4): %	

*ELECTRICAL PRECIPITATOR	
1. FLOW DIAGRAM DESIGNATION(S) OF ELECTRICAL PRECIPITATOR:	
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:
4. COLLECTING ELECTRODE AREA PER CONTROL DEVICE: FT^2	

AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
5. GAS FLOW RATE: SCFM	7. GAS FLOW RATE: SCFM
6. EFFICIENCY OF ELECTRICAL PRECIPITATOR(SEE INSTRUCTION 4): %	8. EFFICIENCY OF ELECTRICAL PRECIPITATOR(SEE INSTRUCTION 4): %
SUBMIT THE MANUFACTURER'S SPECIFICATIONS FOR THE ELECTRICAL PRECIPITATOR. REFERENCE THE INFORMATION TO THIS FORM.	

*ELECTRICAL PRECIPITATORS VARY GREATLY IN THEIR DESIGN AND IN THEIR COMPLEXITY. THE ITEMS IN THIS SECTION PROVIDE A MINIMUM AMOUNT OF INFORMATION. THE APPLICANT MUST, HOWEVER, SUBMIT WITH THIS APPLICATION THE MANUFACTURER'S SPECIFICATIONS, INCLUDING ANY DRAWINGS, TECHNICAL DOCUMENTS, ETC. IF THE INFORMATION PROVIDED BY THE MANUFACTURER'S SPECIFICATIONS IS INSUFFICIENT FOR FULL AND ACCURATE ANALYSIS, THE AGENCY WILL REQUEST SPECIFIC ADDITIONAL INFORMATION.

FILTER UNIT	
1. FLOW DIAGRAM DESIGNATION(S) OF FILTER UNIT: NEW 20,000 CFM DUST COLLECTOR TO REPLACE EXISTING SCRUBBER	
2. MANUFACTURER: TBD	3. MODEL NAME AND NUMBER: TBD
4. FILTERING MATERIAL: CLOTH FABRIC	5. FILTERING AREA: 4.84/1 ACFM/FT2 FT^2
6. CLEANING METHOD: ☐ SHAKER ☐ REVERSE AIR ☐ PULSE AIR ☐ PULSE JET ☒ OTHER: SPECIFY TBD	
7. GAS COOLING METHOD: ☐ DUCT WORK: LENGTH _____ FT., DIAM _____ IN. ☐ BLEED-IN AIR ☐ WATER SPRAY ☒ OTHER: SPECIFY TBD	

AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
8. GAS FLOW RATE (FROM SOURCE): 18,000 SCFM	12. GAS FLOW RATE (FROM SOURCE): 18,000 SCFM
9. GAS COOLING FLOW RATE: BLEED-IN AIR _____ SCFM, WATER SPRAY _____ GPM	13. GAS COOLING FLOW RATE: BLEED-IN AIR _____ SCFM, WATER SPRAY _____ GPM
10. INLET GAS CONDITION: TEMPERATURE AMBIENT °F DEWPOINT _____ °F	14. INLET GAS CONDITION: TEMPERATURE AMBIENT °F DEWPOINT _____ °F
11. EFFICIENCY OF FILTER UNIT (SEE INSTRUCTION 4): 99.0 %	15. EFFICIENCY OF FILTER UNIT (SEE INSTRUCTION 4): 99.0 %

EMISSION INFORMATION				
1. NUMBER OF IDENTICAL CONTROL UNITS OR CONTROL SYSTEMS (DESCRIBE AS REQUIRED): NONE				
AVERAGE OPERATION				
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL CONTROL UNITS OR CONTROL SYSTEM			METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	2a. GR/SCF	b. LB/HR		c. SEE TECHNICAL SUPPORT DOCUMENT, TABLES 1 & 2.
CARBON MONOXIDE	3a. PPM (VOL)	b. LB/HR		c.
NITROGEN OXIDES	4a. PPM (VOL)	b. LB/HR		c.
ORGANIC MATERIAL	5a. PPM (VOL)	b. LB/HR		c.
SULFUR DIOXIDE	6a. PPM (VOL)	b. LB/HR		c.
**OTHER (SPECIFY)	7a. PPM (VOL)	b. LB/HR		c.
MAXIMUM OPERATION				
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL CONTROL UNITS OR CONTROL SYSTEM			METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	8a. GR/SCF	b. LB/HR		c. SEE TECHNICAL SUPPORT DOCUMENT, TABLES 1 & 2.
CARBON MONOXIDE	9a. PPM (VOL)	b. LB/HR		c.
NITROGEN OXIDES	10a. PPM (VOL)	b. LB/HR		c.
ORGANIC MATERIAL	11a. PPM (VOL)	b. LB/HR		c.
SULFUR DIOXIDE	12a. PPM (VOL)	b. LB/HR		c.
**OTHER (SPECIFY)	13a. PPM (VOL)	b. LB/HR		c.

**"OTHER" CONTAMINANT SHOULD BE USED FOR AN AIR CONTAMINANT NOT SPECIFICALLY NAMED ABOVE. POSSIBLE OTHER CONTAMINANTS ARE ASBESTOS, BERYLLIUM, MERCURY, VINYL CHLORIDE, LEAD, ETC.

EXHAUST POINT INFORMATION	
1. FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT: TBD	
2. DESCRIPTION OF EXHAUST POINT (LOCATION IN RELATION TO BUILDINGS, DIRECTION, HOODING, ETC.):	
3. EXIT HEIGHT ABOVE GRADE:	4. EXIT DIAMETER:
5. GREATEST HEIGHT OF NEARBY BUILDINGS:	6. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY:
AVERAGE OPERATION	MAXIMUM OPERATION
7. EXIT GAS TEMPERATURE: °F	9. EXIT GAS TEMPERATURE: °F
8. GAS FLOW RATE THROUGH EACH EXIT: ACFM	10. GAS FLOW RATE THROUGH EACH EXIT: ACFM

Appendix B

Lifetime Operating Permit No. 73031358

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

P.O. BOX 19506, SPRINGFIELD, ILLINOIS 62794-9506

RENLE CIPRIANO, DIRECTOR

217/782-2113

LIFETIME OPERATING PERMIT - NSPS - REVISED

PERMITTEE

Wedron Silica
Attn: Wayne Williams
P.O. Box 119
Wedron, Illinois 60557

Application No.: 73031358
Applicant's Designation:
Subject: Aggregate Processing Plant
Date Issued: May 6, 2004
Location: 3450 East 2056th Road, Wedron

I.D. No.: 099804AAB
Date Received: February 6, 2004

Expiration Date: See Condition 1.

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of:

One (1) Gas-Fired Rotary Dryer Controlled by Scrubber DC-11
Two (2) Cooling Transfer Points #1 and #2 Controlled by Scrubber DC-02
Two (2) Sand Baggers Controlled by Scrubber DC-02
Two (2) Sand Coolers Controlled by Scrubber DC-04 and DC-05
Two (2) Cooler Feeders Controlled by Scrubber DC-02
One (1) Conveyor #9 Controlled by Scrubber DC-09
Four (4) Conveyors #10, #25, #26, #27 Controlled by Scrubber DC-03
One (1) Conveyor/Slurry Bin Uncontrolled
One (1) Cooler Feed Bin Controlled by Scrubber DC-02
A Sand Screening, Conveying, Storage Area Controlled by Scrubber DC-06
A Truck Load Out Area Controlled by Scrubber DC-07
A Rail Loadout Area Controlled by Scrubber DC-08
One (1) Crusher Controlled by Water Spray
One (1) Unloading Hopper Controlled by Water Spray
One (1) Double Deck Screen Controlled by Water Spray
Mill B Conveyors Controlled by Baghouse
Four (4) Large Bins Controlled by Baghouse
Two (2) Small Bins Controlled by Baghouse

pursuant to the above-referenced application. This permit is subject to standard conditions attached hereto and the following special condition(s):

1a. This permit shall expire 180 days after the Illinois EPA sends a written request for the renewal of this permit.

b. This permit shall terminate if it is withdrawn or is superseded by a revised permit.

2a. Any crusher, grinding mill, screening operation, bucket elevator, belt conveyor, storage bin, or bagging operation at the plant that is new, i.e., which is fabricated or modified after August 31, 1983 is subject to New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and OOO, unless it is part of a plant meeting one of the following exemptions:

i. Fixed sand and gravel plants and crushed stone plants with a cumulative rated capacity of all initial crushers of 25 tons/hour or less. (40 CFR 60.670(a)(1))

ii. Portable sand and gravel plant and crushed stone plants with a cumulative rated capacity of all initial crushers of 150 tons/hour or less. (40 CFR 60.670(c)(2))

The Illinois EPA is administrating these standards in Illinois on behalf of the United States EPA under a delegation agreement.

b. New equipment, as described above, shall comply with the following requirements:

i. Emissions of particulate matter from grinding mills, screens (except from truck dumping), bucket elevators, transfer points on belt conveyors, bagging operations, and storage bins, shall not exceed 10 percent opacity. (40 CFR 60.672(b) and (d)).

ii. Emissions of particulate matter from the crushers (except from truck dumping), shall not exceed 15 percent opacity. (40 CFR 60.672(c) and (d)).

iii. At all times the Permittee shall also maintain and operate this equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions.

3a. Operation of the sand/aggregate processing plant shall not exceed the following limits.

Sand/Aggregate Processed: 250,000 tons/month and 2,000,000 tons/year.

b. Compliance with these annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.

4. For sources not controlled by a wet scrubber the moisture content of the aggregate as crushed shall be at least 1.5% by weight so as to reduce emissions of particulate matter.

a. The Permittee shall show compliance with this requirement as follows:

i. The moisture content of a representative sample of the aggregate shall be measured at least once per week using ASTM Procedures (C566-97) for total moisture content of material. Compliance with this requirement may be presumed if moisture content of aggregate as shipped is at least 1.5%; or

ii. A. Water sprays shall be used at each crusher and on other emission units as necessary, except when

weather conditions are below or expected to fall below freezing temperatures, to provide moisture that will reduce emissions of particulate matter.

B. The water supply to the spray equipment shall be equipped with a metering device used to determine water usage for the control of particulate matter emissions.

C. Inspections of water spray equipment and operation (such as leaking, adequate flow maintain, clogging of flow lines, etc.) shall be performed at least once per week when the facility is in operation.

iii. Water saturated materials mined below the water table are being processed.

5a. For those sources using a wet scrubber as control, a continuous monitoring system shall be installed, maintained, and operated in accordance with the provisions of 40 CFR 60.674 for:

i. Scrubber gas stream pressure loss (accurate to +/- 1 inch water gauge)

ii. Scrubber liquid flow rate (accurate to +/- 5 percent design flow rate).

b. The Permittee shall maintain records of the scrubber operation, pursuant to 40 CFR 60.7(b).

6a. If the Permittee is relying on 5(a)(i) above to show compliance the Permittee shall maintain records of all moisture content tests performed, including date, time, individual performing test, location of sample e.g., prior to crushing or as shipped.

If the Permittee is relying on 5(a)(ii) above to show compliance the Permittee shall maintain operating logs for the water spray equipment, including dates and times of usage, malfunctions (type date and measures taken to correct), water pressure, and dates when there was enough rain that the water spray equipment was not operated.

b. The Permittee shall maintain weekly records of water consumption in the spray equipment, as determined by the meter required by Condition 3(a)(ii).

c. The Permittee shall maintain records of the following items:

i. Aggregate processed (tons/month and tons/year).

ii. Natural gas usage.

iii. Emissions of PM and PM_{10} (tons/month and tons/year).

7. The assembly of this plant at a new location will require a construction permit for the new location. This permit must be obtained prior to commencing construction at the new location.

8. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity that is visible by an observer looking generally toward the zenith (that is, looking at the sky directly overhead) from a point beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.

9. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.

10. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.

11. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
5415 North University
Peoria, Illinois 61614

12. Persons with lifetime operating permits must obtain a revised permit for any of the following changes at the source:

a. An increase in emissions above the amount the emission unit or the source is permitted to emit;

b. A modification;

c. A change in operations that will result in the source's noncompliance with conditions in the existing permit; or

d. A change in ownership, company name, or address, so that the application or existing permit is no longer accurate.

It should be noted that the gas-fired heater and diesel fuel tank are exempt from state permit requirements, pursuant to 35 Ill. Adm. Code 201.146(d) and (n), respectively.

It should be noted that this permit has been revised to correct a typographical error in the emission units.

If you have any questions on this permit, please contact Mike Dragovich at 217/782-2113.

DES

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:MDD:pmj

cc: Region 2

COPY
Original Signed by
Donald E. Sutton, P.E.

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the processing plant operating in compliance with the requirements of this permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from this plant. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled and control measures are more effective than required in this permit.

Particulate matter emissions from the sand/aggregate processing plant:

Item of Equipment	Annual Throughput (T/Yr)	PM_{10} Emission Factor (Lb/T)	Annual Emissions PM_{10} (T/Yr)	Annual Emissions PM (T/Yr)
Unloading Hopper	2,000,000	0.000016	0.02	0.04
Double Deck Screen	2,000,000	0.00084	0.84	1.73
Crusher	2,000,000	0.002	2.40	5.07
Conveyor/Slurry Bin	2,000,000	0.000048	0.05	0.10
Conveyor #9	1,872,000	0.000028	0.03	0.06
2 Cooling Transfer Pts (#1 & #2)	1,872,000	0.000028	0.03	0.06
Cooler Feed Bin	1,872,000	0.000028	0.03	0.06
2 Cooler Feeders	1,872,000	0.000028	0.03	0.06
2 Sand Baggers	187,200	0.000028	0.01	0.01
2 Sand Coolers	1,872,000	0.000028	1.80	3.80
3 Belt Conveyors (#25, #26, #27)	1,872,000	0.000028	1.61	3.39
Belt Conveyor (#10)	1,872,000	0.0014	1.31	2.77
Sand, Screening, Conveying, Storage	1,872,000	0.00084	0.79	1.66
Truck Loadouts (LS-01, LS-02)	936,000	0.0014	0.66	1.39
Rail Loadout	1,497,600	0.0014	1.05	2.22
Mill B Conveyors	187,200	0.0014	0.14	0.28
4 Large Bins	149,760	0.0014	0.11	0.23
2 Small Bins	37,440	0.0014	0.03	0.06
		Totals:	10.94	22.99

This table is based on the actual emissions determined from maximum production, standard emission factors, and information provided in the permit application.

		EMISSIONS	
Item of Equipment	Annual Throughput (T/Yr)	Nitrogen Dioxide (T\Yr)	Carbon Monoxide (T/Yr)
Gas Fired Rotary Dryer	1,872,000	25.2	6.3

These limits are based on information in the permit application.

DES:MJD:jar

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

STANDARD CONDITIONS FOR LIFETIME OPERATING PERMITS

July 1, 1998

The Illinois Environmental Protection Act [415 ILCS 5/39 (formerly Illinois Revised Statutes, Chapter 111-1/2, Section 1039)] grants the Illinois Environmental Protection Agency authority to impose conditions on permits which it issues.

1. The issuance of this Permit does not release the Permittee from compliance with state and federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statues and regulations of the United States or the State of Illinois or with applicable local laws, ordinances and regulations.

2. The Illinois EPA has issued this Permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be ground for revocation under 35 Ill. Adm. Code 201.166.

3. a. The Permittee shall not authorize, cause, direct or allow any modification, as defined in 35 Ill. Adm. Code 201.102, of equipment, operations or practices which are reflected in the permit application as submitted, until the appropriate permit is obtained from the Illinois EPA.

   b. The Permittee shall obtain a new or revised permit under Section 39.5 of the Act, if the source no longer meets the applicability criteria of 35 Ill. Adm. Code 201169 because of changes in emissions units or control equipment.

   c. The Permittee shall obtain a revised permit prior to any of the following changes at the source:

      i. An increase in emissions above the amount the emission unit or the source is permitted to emit; or

      ii. A modification; or

      iii. A change in operations that will result in the source's noncompliance with a condition in the existing permit; or

      iv. A change in ownership, company name, or address, so that the application or existing permit is no longer accurate.

4. a. This Permit only covers emission units and control equipment while physically present at the indicated source location. Unless the Permit specifically provides for equipment relocation, this Permit is void for n item of equipment on the day it is removed from the permitted location, or if all equipment is removed.

   b. The Permittee shall notify the Illinois EPA in writing to withdraw the Permit if all operations the source have been permanently discontinued.

5. The Permittee shall allow any duly authorized agent of the Illinois EPA, upon the presentation of credentials, at reasonable times:

   a. To enter the Permittee's property where actual or potential effluent, emission or noise units are located or where any activity is to be conducted, pursuant to this Permit;

   b. To have access to and to copy any records required to be kept under the terms and conditions of this Permit;

   c. To inspect, including during any hours of operation of equipment constructed or operated under this Permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this Permit;

   d. To obtain and remove samples of any discharge or emission of pollutants; and

   e. To enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring or recording any activity, discharge or emission authorized by this Permit.

6. The issuance of this Permit:

   a. Shall not be considered as in any manner affecting the title of the premises upon which the permitted source is located;

   b. Does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the source;

   c. Does not take into consideration or attest to the structural stability of any unit or part of the project; and

   d. In no manner implies or suggests that the Illinois EPA (or its officers, agents, or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or source.

7. The Permittee shall maintain all equipment covered under this Permit in such a manner that the performance of such equipment shall not cause a violation of the Environmental Protection Act or regulations promulgated thereuner.

8. The Permittee shall maintain a maintenance record on the premises for each item of air pollution control equipment. This records shall be made available to any agent of the Illinois EPA at any time during normal working hours and/or operating hours. As a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

9. No person shall cause or allow startup of any emission unit or continued operation during malfunction or breakdown of any emission unit or related air pollution control equipment if such startup or continued operation would cause a violation of an applicable emission standard or permit limitation if such operation is not allowed as a special condition of this Permit, as required by 35 Ill. Adm. Code 201.149.

10. The Permittee shall submit an Annual Emission Report as required by 35 Ill. Adm. Code 201.302 and 35 Ill. Adm. Code Part 254.

11. The Permittee shall pay the annual site fee for the source in accordance with Section 9.5 of the Act.